SP-58
(Supplement to
H.O. Pub. 614)

WHOI
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SPECIAL PUBLICATION

TABLES OF SOUND SPEED IN SEA WATER

Oceanographic Analysis Division
Marine Sciences Department

AUGUST 1962

PRICE 50 CENTS

U.S. NAVAL OCEANOGRAPHIC OFFICE
WASHINGTON, D.C.

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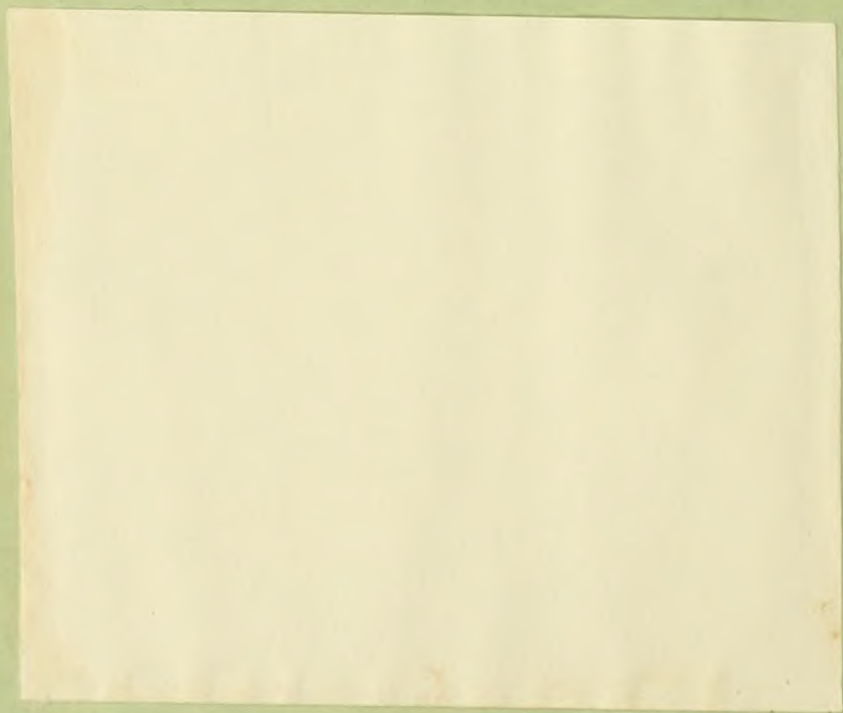
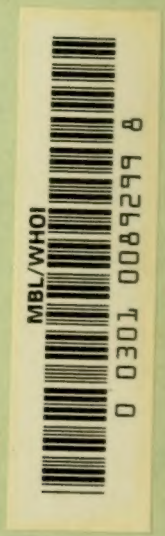
ABSTRACT

Sound speed tables have been computed from W. D. Wilson's equation (Journal of the Acoustical Society of America, Vol. 32, No. 10, October 1960). The tables cover temperature, salinity, and pressure ranges from −2.5° to 34.9°C, 0 to 41.9°/$_{oo}$, and 1.03 kg/cm^2 to 1260 kg/cm^2. A pressure-depth relationship is established whereby the tables may be entered with either depth in meters or pressure in kilograms per square centimeter.

A sound speed nomogram developed from values in the table is presented for purposes of rapid calculation.





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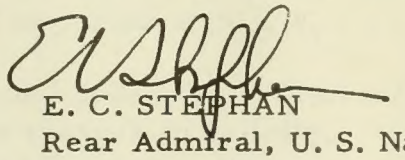
FOREWORD

It has become increasingly evident that the accuracy of the Kuwahara equation for computing sound speeds in sea water is not sufficient for present day needs. In situ measurements of sound speed in sea water indicate that at some depths the speed calculated by the Kuwahara equation is 3 to 4 meters per second too slow. To remedy this inadequacy a conference of interested parties, held at the Hydrographic Office in May 1961, concluded that the sound speed equation of Kuwahara should be replaced by the empirical equation developed at the Naval Ordnance Laboratory by Wayne D. Wilson. Since that time this Office has been recomputing available sound speed data on the basis of Wilson's equation. The tables presented here have been developed from the Wilson equation to facilitate hand computation of sound speeds from temperature and salinity data.

Although continuing research may yield more accurate equations, these tables are individually accurate to the nearest 0.1 meter per second and the total error in any computation within the normal range of oceanographic variables should be less than 0.3 meter per second.



E. C. STEPHAN
Rear Admiral, U. S. Navy
Commander

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PART I. DISCUSSION

INTRODUCTION

The sound speed tables presented in H. O. Pub. No. 614[1], after Kuwahara[2], present sound speed as a function of temperature, salinity, pressure, and latitude. His tables were developed from mathematical analysis of specific volumes rather than empirical sound speed measurements. Actual measurements of sound speed in sea water indicate Kuwahara's speeds are approximately 4 meters per second too slow.

With the development of progressively more complex weapons systems it became necessary to have more accurate sound speed information. As a result of this recognized need, a conference[3] of interested parties was held at the Hydrographic Office in May 1961 for the purpose of resolving whether or not a new equation for the calculation of sound speed should be adopted. It was generally agreed that Wilson's equation[4] (shown below) should be adopted for Naval applications. This decision was reached with the knowledge that research presently being conducted may yield equations which are somewhat more accurate.

$$V \text{ m/sec.} = 1449.14 + V_p + V_s + V_t + V_{stp}$$

Where:

$$V_p = 1.60272 \times 10^{-1} P + 1.0268 \times 10^{-5} P^2 + 3.5216 \times 10^{-9} P^3 - 3.3603 \times 10^{-12} P^4$$

$$V_s = 1.39799 (S-35) + 1.69202 \times 10^{-3} (S-35)^2$$

$$V_t = 4.5721T - 4.4532 \times 10^{-2} T^2 - 2.6045 \times 10^{-4} T^3 + 7.9851 \times 10^{-6} T^4$$

$$V_{stp} = (S-35)(-1.1244 \times 10^{-2} T + 7.7711 \times 10^{-7} T^2 + 7.7016 \times 10^{-5} P - 1.2943 \times 10^{-7} P^2 + 3.1580 \times 10^{-8} PT + 1.5790 \times 10^{-9} PT^2) + P(-1.8607 \times 10^{-4} T + 7.4812 \times 10^{-6} T^2 + 4.5283 \times 10^{-8} T^3) + P^2(-2.5294 \times 10^{-7} T + 1.8563 \times 10^{-9} T^2) + P^3(-1.9646 \times 10^{-10} T).$$

The tables presented herein are computed from the above equation and should be used in lieu of those in H. O. Pub. No. 614, 1951 edition.

A. TABLES

According to Wilson, the mean standard deviation of the error between his equation and measured speeds over the range of variables (temperature -4°C. to 30°C., salinity 0‰ to 37‰, pressure 1 to 1,000 kg/cm^2) is 0.30 m/sec. With temperature as the dependent variable, the maximum standard deviation is 0.74 m/sec at salinity 0.00‰ and surface pressure, and the minimum standard deviation is 0.08 m/sec at 36.55‰ salinity and 420 kg/cm^2 pressure.

The accuracy of the equation at values higher than those shown above has had some limited evaluation by Wilson. The difference between the measured and computed velocities at some sample extreme values are:

Temperature	Salinity	Pressure	Difference
30.13°C.	42.15‰	Surface	0.13 m/sec
39.85	34.99	Surface	0.06
39.85	42.15	Surface	0.85
39.85	42.15	381 kg/cm^2	0.65
20.11	34.99	1,150 kg/cm^2	0.21

Tables 1 through 6 were developed using the Wilson equation programmed for the IBM 7070 computer. The speeds were computed to the nearest 0.01 m/sec and for convenience were rounded to the nearest 0.1 m/sec for presentation.

Although Wilson's equation is entered with pressure as a variable, by assuming a uniform water column of 0°C. temperature and 35‰ salinity, a depth-pressure relationship is established; therefore, the tables are presented so that they can be entered with depth or pressure. A convenient depth interval from 1 meter to 11,500 meters in the depth (pressure) correction, Table 2, is used in order to minimize interpolation; however, if it is desired to use in situ pressure to obtain the pressure correction, Table 1 is to be used. Table 3, converted from the original Kuwahara table, is to be applied to correct the sound speeds for variations in gravity with latitude and depth. Tables 4 and 5 may be entered with salinity to the nearest 0.01‰ and temperature to the nearest 0.01°C., thus eliminating interpolation. The simultaneous corrections for temperature, salinity, and depth (pressure) are presented

in Table 6 at standard oceanographic station depths assuming the above pressure-depth relationship. Again, if it is desired to use in situ pressures instead of depth to make the simultaneous correction, the pressure value is presented at each depth. Some interpolation may be required in these tables; however, for depths less than 3,000 meters, the difference between tables for identical temperature and salinity values is usually less than 0.2 m/sec. Table 7 is presented for ease of conversion of meters/second to feet/second if desired.

The assumption that the sound speed at a particular depth is a weak function of the temperature and salinity structure above that depth is supported by NEL[5]. In addition, direct comparisons were made at the Hydrographic Office between the speeds presented here and those computed by using the actual pressures. Sound speeds were computed at standard depths, in one case using computed in situ pressures and in the other using computed pressures resulting from an assumed water column at 0°C. temperature and 35‰ salinity. In the Gulf of Alaska and the Philippine Trench, this method indicated differences of less than 0.1 m/sec or less above 4,000 meters depth. In the Philippine Trench at 8,000 meters, the difference was less than 0.2 m/sec. These computations indicated that the change in pressure attributed to differences in temperature and salinity from 0°C. and 35‰ have only a minor effect on the sound speed at any depth.

B. SOUND SPEED NOMOGRAM

The sound speed nomogram and structure form was drawn from the values of sound speed given in the tables. As in the tables, the pressure-depth relationship is based on a 0°C. and 35‰ water column. The main body of the nomogram presents sound speed as a function of temperature and depth with salinity held at 35‰. Values are plotted to the nearest tenth of a meter per second and can probably be read to the nearest 0.5 m/sec. An inset is provided to correct for salinities other than 35‰; for salinities less than 35‰ the correction is negative, for salinities greater than 35‰ the correction is positive. For the normal range of salinity, temperature, and depth for oceanic and nearshore waters the salinity correction is accurate to the nearest 0.1 m/sec. For anomalous oceanographic conditions but within the range of variables covered by the tables, the error may increase to 0.3 to 0.4 m/sec; i.e., for fresh water at 2,000 meters depth or 32‰ (or 38‰) salinity at 11,000 meters.

Sound speeds from the nomogram can be determined to within one meter per second; if greater accuracy is desired, the tables should be used.

The temperature structure at an oceanographic station may be plotted on the nomogram to determine an approximate sound speed structure. Large errors in absolute speed will occur in nearshore areas or enclosed seas where the salinity may deviate radically from 35‰; the general shape of the speed structure may be easily determined for the normal oceanographic environment.

REFERENCES

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5. PEDERSEN, M. A. NEL sound velocity program. Informal draft enclosure to NEL ltr to USNHO SF001 03 01 (NEL L15) 2233-13 of 10 May 1961.

SOUND SPEED NOMOGRAM
(BASED ON WILSON'S EQUATION)

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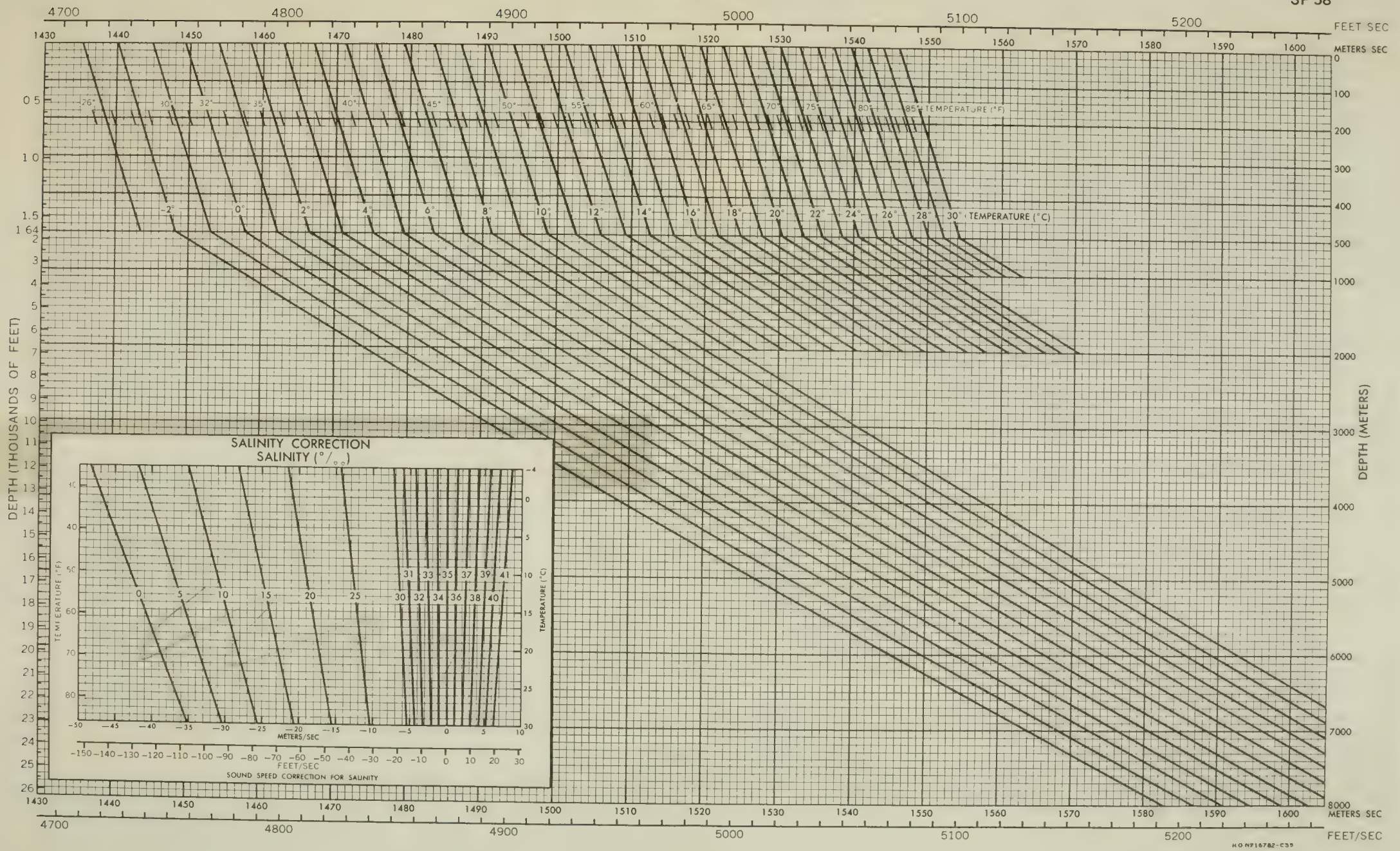

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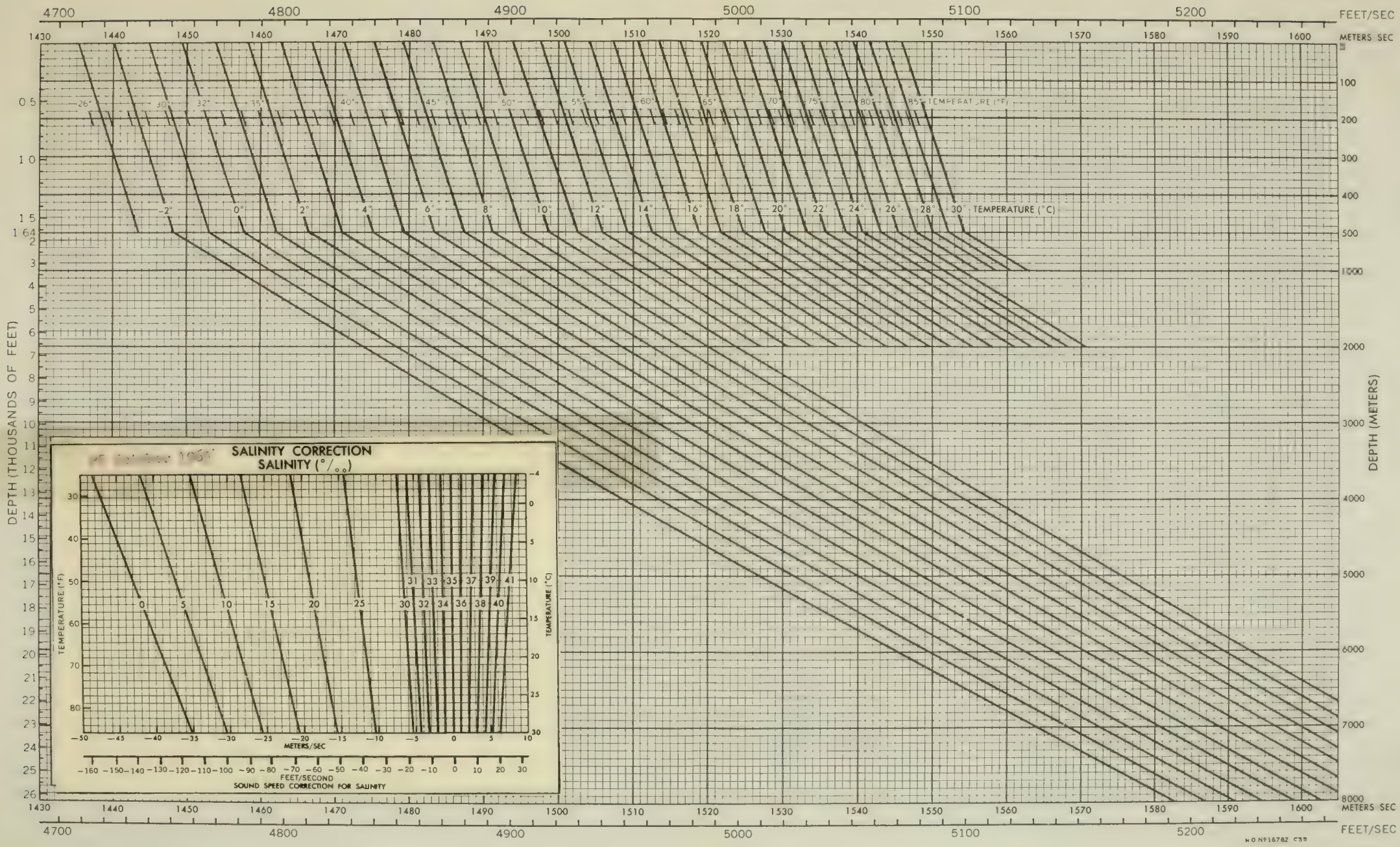

IV. SOUND SPEED TABLES

Table 1. - Sound speed, V_o (1449.1 m/sec), corrected for changes in Pressure (kg/cm^2), V_p.

Table 2. - Sound speed, V_o (1449.1 m/sec), corrected for changes in Depth (meters), (pressures derived assuming 35‰, 0°C), V_p.

Table 3. - Correction to sound speed, V_o (1449.1 m/sec), for changes in Latitude-Depth, V_ϕ.

Table 4. - Correction to sound speed, V_o (1449.1 m/sec), for changes in Salinity (‰), V_s.

Table 5. - Correction to sound speed, V_o (1449.1 m/sec), for changes in Temperature (°C), V_t.

Table 6. - Correction to sound speed, V_o (1449.1 m/sec), for simultaneous changes in Salinity, Temperature, and Pressure, V_{stp}.

Table 7. - Sound speed conversion - Meters/second to feet/second.

Example A: Determine sound speed (in situ pressure known).

Given: Pressure = 83.5 kg/cm^2, Latitude = 60°, Salinity = 32.71‰, Temperature = 4.52°C.

From Table 1, under 83.5 kg/cm^2 ----------1449.1 + V_p = 1462.6 m/sec
From Table 3, under 60° Lat. ---------- V_ϕ = 0.0 m/sec
From Table 4, under 32.71‰ ---------- V_s = -3.2 m/sec
From Table 5, under 4.52°C ---------- V_t = 19.7 m/sec
From Table 6, under 83.5 kg/cm^2, 32.71‰, 4.52°C----- V_{stp} = 0.0 m/sec

Sound Speed, V = 1449.1 + V_p + V_ϕ + V_s + V_t + V_{stp} ------ 1479.1 m/sec

V_p V_ϕ	V_s	V_t	V_{stp}						METERS-FEET
			0-500 m	1000-2000 m	2500-4000 m	5000-6000 m	7000-8000 m	9000-11,000 m	

Example B: Determine Sound Speed (assume a water column of 35‰, 0°C. for depth-pressure correction).

Given: Depth-pressure = 2,000 m., Latitude = 50°, Salinity 35.20‰, Temperature 5.66°C.

From Table 2, under 2,000 m. ----------1449.1 + V_p = 1482.8 m/sec
From Table 3, under 50° Lat. ---------- V_ϕ = 0.1 m/sec
From Table 4, under 35.20‰ ---------- V_s = 0.3 m/sec
From Table 5, under 5.66°C ---------- V_t = 24.4 m/sec
From Table 6, under 2,000 m, 35.20‰, 5.66°C. -------- V_{stp} = -0.2 m/sec

Sound Speed, V = 1449.1 + V_p + V_ϕ + V_s + V_{stp} ---------- 1507.4 m/sec

TABLE 1. SOUND SPEED, V_o (1449.1 m/sec) CORRECTED FOR CHANGES IN PRESSURE (kg/cm^2), V_p

p kg/cm^2	1449.1 + V_p	p kg/cm^2	1449.1 + V_p	p kg/cm^2	1449.1 + V_p	p kg/cm^2	1449.1 + V_p	p kg/cm^2	1449.1 + V_p	p kg/cm^2	1449.1 + V_p	p kg/cm^2	1449.1 + V_p	p kg/cm^2	1449.1 + V_p	p kg/cm^2	1449.1 + V_p
1.03	1449.3	70	1460.4	220	1484.9	370	1510.0	520	1535.5	670	1561.5	820	1587.9	970	1614.5	1120	1641.2
2.00	1449.5	80	1462.0	230	1486.6	380	1511.6	530	1537.2	680	1563.3	830	1589.7	980	1616.3	1130	1643.0
3.00	1449.6	90	1463.6	240	1488.2	390	1513.3	540	1538.9	690	1565.0	840	1591.4	990	1618.1	1140	1644.7
4.00	1449.8	100	1465.3	250	1489.9	400	1515.0	550	1540.7	700	1566.8	850	1593.2	1000	1619.8	1150	1646.5
5.00	1449.9	110	1466.9	260	1491.6	410	1516.7	560	1542.4	710	1568.5	860	1595.0	1010	1621.6	1160	1648.3
6.00	1450.1	120	1468.5	270	1493.2	420	1518.4	570	1544.1	720	1570.3	870	1596.7	1020	1623.4	1170	1650.1
7.00	1450.3	130	1470.2	280	1494.9	430	1520.1	580	1545.9	730	1572.0	880	1598.5	1030	1625.2	1180	1651.8
8.00	1450.4	140	1471.8	290	1496.5	440	1521.8	590	1547.6	740	1573.8	890	1600.3	1040	1627.0	1190	1653.6
9.00	1450.6	150	1473.4	300	1498.2	450	1523.5	600	1549.3	750	1575.5	900	1602.1	1050	1628.7	1200	1655.4
10.00	1450.7	160	1475.1	310	1499.9	460	1525.2	610	1551.1	760	1577.3	910	1603.8	1060	1630.5	1210	1657.1
20.00	1452.3	170	1476.7	320	1501.6	470	1526.9	620	1552.8	770	1579.1	920	1605.6	1070	1632.3	1220	1658.9
30.00	1454.0	180	1478.3	330	1503.2	480	1528.6	630	1554.5	780	1580.8	930	1607.4	1080	1634.1	1230	1660.7
40.00	1455.6	190	1480.0	340	1504.9	490	1530.4	640	1556.3	790	1582.6	940	1609.2	1090	1635.9	1240	1662.4
50.00	1457.2	200	1481.6	350	1506.6	500	1532.1	650	1558.0	800	1584.4	950	1610.9	1100	1637.6	1250	1664.2
60.00	1458.8	210	1483.3	360	1508.3	510	1533.8	660	1559.8	810	1586.1	960	1612.7	1110	1639.4	1260	1666.0

TABLE 2. SOUND SPEED, V_o (1449.1 m/sec), CORRECTED FOR CHANGES IN DEPTH (METERS) (PRESSURES DERIVED ASSUMING 35‰, 0°C), V_p

Depth m	1449.1 + V_p	Depth m	1449.1 + V_p	Depth m	1449.1 + V_p	Depth m	1449.1 + V_p	Depth m	1449.1 + V_p	Depth m	1449.1 + V_p	Depth m	1449.1 + V_p	Depth m	1449.1 + V_p
0	1449.3	80	1450.6	900	1464.3	2500	1491.5	4300	1523.1	6000	1553.8	7700	1585.4	9400	1617.5
1	1449.3	90	1450.8	950	1465.1	2600	1493.2	4400	1524.8	6100	1555.6	7800	1587.2	9500	1619.3
2	1449.3	100	1451.0	1000	1465.9	2700	1494.9	4500	1526.6	6200	1557.5	7900	1589.1	9600	1621.3
3	1449.4	150	1451.8	1050	1466.8	2800	1496.7	4600	1528.4	6300	1559.3	8000	1591.0	9700	1623.2
4	1449.4	200	1452.6	1100	1467.6	2900	1498.4	4700	1530.2	6400	1561.2	8100	1592.9	9800	1625.1
5	1449.4	250	1453.4	1200	1469.3	3000	1500.1	4800	1532.0	6500	1563.0	8200	1594.8	9900	1627.0
6	1449.4	300	1454.3	1300	1471.0	3100	1501.9	4900	1533.8	6600	1564.9	8300	1596.6	10000	1628.9
7	1449.4	350	1455.1	1400	1472.7	3200	1503.6	5000	1535.6	6700	1566.7	8400	1598.5	10100	1630.8
8	1449.4	400	1455.9	1500	1474.4	3300	1505.4	5100	1537.4	6800	1568.6	8500	1600.4	10200	1632.7
9	1449.5	450	1456.7	1600	1476.1	3400	1507.1	5200	1539.2	6900	1570.4	8600	1602.3	10300	1634.6
10	1449.5	500	1457.6	1700	1477.8	3500	1508.9	5300	1541.0	7000	1572.3	8700	1604.2	10400	1636.5
20	1449.6	550	1458.4	1800	1479.5	3600	1510.6	5400	1542.9	7100	1574.1	8800	1606.1	10500	1638.3
30	1449.8	600	1459.2	1900	1481.1	3700	1512.4	5500	1544.7	7200	1576.0	8900	1608.0	10600	1640.2
40	1450.0	650	1460.1	2000	1482.8	3800	1514.2	5600	1546.5	7300	1577.9	9000	1609.9	10700	1642.1
50	1450.1	700	1460.9	2100	1484.6	3900	1515.9	5700	1548.3	7400	1579.7	9100	1611.8	10800	1644.0
60	1450.3	750	1461.8	2200	1486.3	4000	1517.7	5800	1550.1	7500	1581.6	9200	1613.7	10900	1645.9
70	1450.5	800	1462.6	2300	1488.0	4100	1519.5	5900	1552.0	7600	1583.5	9300	1615.6	11000	1647.8
75	1450.5	850	1463.4	2400	1489.7	4200	1521.3								

TABLE 3. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR CHANGES IN LATITUDE-DEPTH, V_ϕ

Depth m	Latitude									
	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
0	0	0	0	0	0	0	0	0	0	0
1000	-.1	0	0	0	0	0	0	.1	.1	.1
2000	-.1	-.1	-.1	0	0	.1	.1	.1	.1	.1
3000	-.1	-.1	-.1	0	0	.1	.1	.1	.2	.2
4000	-.1	-.1	-.1	0	0	.1	.2	.2	.3	.3
5000	-.2	-.1	-.1	0	-.1	.1	.2	.3	.3	.3
6000	-.2	-.2	-.1	0	-.1	.2	.2	.3	.4	.4
7000	-.2	-.2	-.1	-.1	-.1	.2	.3	.3	.4	.4
8000	-.2	-.2	-.2	-.1	-.1	.2				
9000	-.3	-.2	-.2	-.1						
10,000	-.3	-.3	-.2	-.1						
11,000		-.3	-.2	-.1						

TABLE 4. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR CHANGES IN SALINITY (‰), V_s

S	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	-46.9	-46.8	-46.8	-46.8	-46.8	-46.8	-46.8	-46.8	-46.8	-46.7
0.1	-46.7	-46.7	-46.7	-46.7	-46.7	-46.7	-46.7	-46.6	-46.6	-46.6
0.2	-46.6	-46.6	-46.6	-46.6	-46.5	-46.5	-46.5	-46.5	-46.5	-46.5
0.3	-46.5	-46.5	-46.4	-46.4	-46.4	-46.4	-46.4	-46.4	-46.4	-46.4
0.4	-46.3	-46.3	-46.3	-46.3	-46.3	-46.3	-46.3	-46.3	-46.2	-46.2
0.5	-46.2	-46.2	-46.2	-46.2	-46.2	-46.2	-46.1	-46.1	-46.1	-46.1
0.6	-46.1	-46.1	-46.1	-46.1	-46.0	-46.0	-46.0	-46.0	-46.0	-46.0
0.7	-46.0	-45.9	-45.9	-45.9	-45.9	-45.9	-45.9	-45.9	-45.9	-45.8
0.8	-45.8	-45.8	-45.8	-45.8	-45.8	-45.8	-45.8	-45.7	-45.7	-45.7
0.9	-45.7	-45.7	-45.7	-45.7	-45.7	-45.6	-45.6	-45.6	-45.6	-45.6
1.0	-45.6	-45.6	-45.6	-45.5	-45.5	-45.5	-45.5	-45.5	-45.5	-45.5
1.1	-45.4	-45.4	-45.4	-45.4	-45.4	-45.4	-45.4	-45.4	-45.3	-45.3
1.2	-45.3	-45.3	-45.3	-45.3	-45.3	-45.3	-45.2	-45.2	-45.2	-45.2
1.3	-45.2	-45.2	-45.2	-45.2	-45.1	-45.1	-45.1	-45.1	-45.1	-45.1
1.4	-45.1	-45.0	-45.0	-45.0	-45.0	-45.0	-45.0	-45.0	-45.0	-44.9
1.5	-44.9	-44.9	-44.9	-44.9	-44.9	-44.9	-44.9	-44.8	-44.8	-44.8
1.6	-44.8	-44.8	-44.8	-44.8	-44.8	-44.7	-44.7	-44.7	-44.7	-44.7
1.7	-44.7	-44.7	-44.7	-44.6	-44.6	-44.6	-44.6	-44.6	-44.6	-44.6
1.8	-44.5	-44.5	-44.5	-44.5	-44.5	-44.5	-44.5	-44.5	-44.4	-44.4
1.9	-44.4	-44.4	-44.4	-44.4	-44.4	-44.4	-44.3	-44.3	-44.3	-44.3
2.0	-44.3	-44.3	-44.3	-44.3	-44.2	-44.2	-44.2	-44.2	-44.2	-44.2
2.1	-44.2	-44.1	-44.1	-44.1	-44.1	-44.1	-44.1	-44.1	-44.1	-44.0
2.2	-44.0	-44.0	-44.0	-44.0	-44.0	-44.0	-44.0	-43.9	-43.9	-43.9
2.3	-43.9	-43.9	-43.9	-43.9	-43.9	-43.8	-43.8	-43.8	-43.8	-43.8
2.4	-43.8	-43.8	-43.8	-43.7	-43.7	-43.7	-43.7	-43.7	-43.7	-43.7
2.5	-43.6	-43.6	-43.6	-43.6	-43.6	-43.6	-43.6	-43.6	-43.5	-43.5
2.6	-43.5	-43.5	-43.5	-43.5	-43.5	-43.5	-43.4	-43.4	-43.4	-43.4
2.7	-43.4	-43.4	-43.4	-43.4	-43.3	-43.3	-43.3	-43.3	-43.3	-43.3
2.8	-43.3	-43.2	-43.2	-43.2	-43.2	-43.2	-43.2	-43.2	-43.2	-43.1
2.9	-43.1	-43.1	-43.1	-43.1	-43.1	-43.1	-43.1	-43.0	-43.0	-43.0
3.0	-43.0	-43.0	-43.0	-43.0	-43.0	-42.9	-42.9	-42.9	-42.9	-42.9
3.1	-42.9	-42.9	-42.8	-42.8	-42.8	-42.8	-42.8	-42.8	-42.8	-42.8
3.2	-42.7	-42.7	-42.7	-42.7	-42.7	-42.7	-42.7	-42.7	-42.6	-42.6
3.3	-42.6	-42.6	-42.6	-42.6	-42.6	-42.6	-42.5	-42.5	-42.5	-42.5
3.4	-42.5	-42.5	-42.5	-42.4	-42.4	-42.4	-42.4	-42.4	-42.4	-42.4
3.5	-42.4	-42.3	-42.3	-42.3	-42.3	-42.3	-42.3	-42.3	-42.3	-42.2
3.6	-42.2	-42.2	-42.2	-42.2	-42.2	-42.2	-42.2	-42.1	-42.1	-42.1
3.7	-42.1	-42.1	-42.1	-42.1	-42.0	-42.0	-42.0	-42.0	-42.0	-42.0
3.8	-42.0	-42.0	-41.9	-41.9	-41.9	-41.9	-41.9	-41.9	-41.9	-41.9
3.9	-41.8	-41.8	-41.8	-41.8	-41.8	-41.8	-41.8	-41.8	-41.7	-41.7
4.0	-41.7	-41.7	-41.7	-41.7	-41.7	-41.6	-41.6	-41.6	-41.6	-41.6
4.1	-41.6	-41.6	-41.6	-41.5	-41.5	-41.5	-41.5	-41.5	-41.5	-41.5
4.2	-41.5	-41.4	-41.4	-41.4	-41.4	-41.4	-41.4	-41.4	-41.3	-41.3
4.3	-41.3	-41.3	-41.3	-41.3	-41.3	-41.3	-41.2	-41.2	-41.2	-41.2
4.4	-41.2	-41.2	-41.2	-41.2	-41.1	-41.1	-41.1	-41.1	-41.1	-41.1

4.5	-41.1	-41.1	-41.0	-41.0	-41.0	-41.0	-41.0	-41.0	-41.0	-40.9
4.6	-40.9	-40.9	-40.9	-40.9	-40.9	-40.9	-40.9	-40.8	-40.8	-40.8
4.7	-40.8	-40.8	-40.8	-40.8	-40.8	-40.7	-40.7	-40.7	-40.7	-40.7
4.8	-40.7	-40.7	-40.7	-40.6	-40.6	-40.6	-40.6	-40.6	-40.6	-40.6
4.9	-40.5	-40.5	-40.5	-40.5	-40.5	-40.5	-40.5	-40.5	-40.4	-40.4
5.0	-40.4	-40.4	-40.4	-40.4	-40.4	-40.4	-40.3	-40.3	-40.3	-40.3
5.1	-40.3	-40.3	-40.3	-40.2	-40.2	-40.2	-40.2	-40.2	-40.2	-40.2
5.2	-40.2	-40.1	-40.1	-40.1	-40.1	-40.1	-40.1	-40.1	-40.1	-40.0
5.3	-40.0	-40.0	-40.0	-40.0	-40.0	-40.0	-39.9	-39.9	-39.9	-39.9
5.4	-39.9	-39.9	-39.9	-39.9	-39.8	-39.8	-39.8	-39.8	-39.8	-39.8
5.5	-39.8	-39.8	-39.7	-39.7	-39.7	-39.7	-39.7	-39.7	-39.7	-39.7
5.6	-39.6	-39.6	-39.6	-39.6	-39.6	-39.6	-39.6	-39.5	-39.5	-39.5
5.7	-39.5	-39.5	-39.5	-39.5	-39.5	-39.4	-39.4	-39.4	-39.4	-39.4
5.8	-39.4	-39.4	-39.4	-39.3	-39.3	-39.3	-39.3	-39.3	-39.3	-39.3
5.9	-39.2	-39.2	-39.2	-39.2	-39.2	-39.2	-39.2	-39.2	-39.1	-39.1
6.0	-39.1	-39.1	-39.1	-39.1	-39.1	-39.1	-39.0	-39.0	-39.0	-39.0
6.1	-39.0	-39.0	-39.0	-38.9	-38.9	-38.9	-38.9	-38.9	-38.9	-38.9
6.2	-38.9	-38.8	-38.8	-38.8	-38.8	-38.8	-38.8	-38.8	-38.8	-38.7
6.3	-38.7	-38.7	-38.7	-38.7	-38.7	-38.7	-38.7	-38.6	-38.6	-38.6
6.4	-38.6	-38.6	-38.6	-38.6	-38.5	-38.5	-38.5	-38.5	-38.5	-38.5
6.5	-38.5	-38.5	-38.4	-38.4	-38.4	-38.4	-38.4	-38.4	-38.4	-38.4
6.6	-38.3	-38.3	-38.3	-38.3	-38.3	-38.3	-38.3	-38.2	-38.2	-38.2
6.7	-38.2	-38.2	-38.2	-38.2	-38.2	-38.1	-38.1	-38.1	-38.1	-38.1
6.8	-38.1	-38.1	-38.1	-38.0	-38.0	-38.0	-38.0	-38.0	-38.0	-38.0
6.9	-37.9	-37.9	-37.9	-37.9	-37.9	-37.9	-37.9	-37.9	-37.8	-37.8
7.0	-37.8	-37.8	-37.8	-37.8	-37.8	-37.8	-37.7	-37.7	-37.7	-37.7
7.1	-37.7	-37.7	-37.7	-37.6	-37.6	-37.6	-37.6	-37.6	-37.6	-37.6
7.2	-37.6	-37.5	-37.5	-37.5	-37.5	-37.5	-37.5	-37.5	-37.5	-37.4
7.3	-37.4	-37.4	-37.4	-37.4	-37.4	-37.4	-37.3	-37.3	-37.3	-37.3
7.4	-37.3	-37.3	-37.3	-37.3	-37.2	-37.2	-37.2	-37.2	-37.2	-37.2
7.5	-37.2	-37.2	-37.1	-37.1	-37.1	-37.1	-37.1	-37.1	-37.1	-37.0
7.6	-37.0	-37.0	-37.0	-37.0	-37.0	-37.0	-37.0	-36.9	-36.9	-36.9
7.7	-36.9	-36.9	-36.9	-36.9	-36.9	-36.8	-36.8	-36.8	-36.8	-36.8
7.8	-36.8	-36.8	-36.7	-36.7	-36.7	-36.7	-36.7	-36.7	-36.7	-36.7
7.9	-36.6	-36.6	-36.6	-36.6	-36.6	-36.6	-36.6	-36.6	-36.5	-36.5
8.0	-36.5	-36.5	-36.5	-36.5	-36.5	-36.4	-36.4	-36.4	-36.4	-36.4
8.1	-36.4	-36.4	-36.4	-36.3	-36.3	-36.3	-36.3	-36.3	-36.3	-36.3
8.2	-36.3	-36.2	-36.2	-36.2	-36.2	-36.2	-36.2	-36.2	-36.1	-36.1
8.3	-36.1	-36.1	-36.1	-36.1	-36.1	-36.1	-36.0	-36.0	-36.0	-36.0
8.4	-36.0	-36.0	-36.0	-36.0	-35.9	-35.9	-35.9	-35.9	-35.9	-35.9
8.5	-35.9	-35.8	-35.8	-35.8	-35.8	-35.8	-35.8	-35.8	-35.8	-35.7
8.6	-35.7	-35.7	-35.7	-35.7	-35.7	-35.7	-35.6	-35.6	-35.6	-35.6
8.7	-35.6	-35.6	-35.6	-35.6	-35.5	-35.5	-35.5	-35.5	-35.5	-35.5
8.8	-35.5	-35.5	-35.4	-35.4	-35.4	-35.4	-35.4	-35.4	-35.4	-35.3
8.9	-35.3	-35.3	-35.3	-35.3	-35.3	-35.3	-35.3	-35.2	-35.2	-35.2
9.0	-35.2	-35.2	-35.2	-35.2	-35.2	-35.1	-35.1	-35.1	-35.1	-35.1
9.1	-35.1	-35.1	-35.0	-35.0	-35.0	-35.0	-35.0	-35.0	-35.0	-35.0
9.2	-34.9	-34.9	-34.9	-34.9	-34.9	-34.9	-34.9	-34.9	-34.8	-34.8
9.3	-34.8	-34.8	-34.8	-34.8	-34.8	-34.7	-34.7	-34.7	-34.7	-34.7
9.4	-34.7	-34.7	-34.7	-34.6	-34.6	-34.6	-34.6	-34.6	-34.6	-34.6

TABLE 4. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR CHANGES IN SALINITY (‰), V_s - Continued

S	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
9.5	-34.5	-34.5	-34.5	-34.5	-34.5	-34.5	-34.5	-34.5	-34.4	-34.4
9.6	-34.4	-34.4	-34.4	-34.4	-34.4	-34.4	-34.3	-34.3	-34.3	-34.3
9.7	-34.3	-34.3	-34.3	-34.2	-34.2	-34.2	-34.2	-34.2	-34.2	-34.2
9.8	-34.2	-34.1	-34.1	-34.1	-34.1	-34.1	-34.1	-34.1	-34.0	-34.0
9.9	-34.0	-34.0	-34.0	-34.0	-34.0	-34.0	-33.9	-33.9	-33.9	-33.9
10.0	-33.9	-33.9	-33.9	-33.9	-33.8	-33.8	-33.8	-33.8	-33.8	-33.8
10.1	-33.8	-33.7	-33.7	-33.7	-33.7	-33.7	-33.7	-33.7	-33.7	-33.6
10.2	-33.6	-33.6	-33.6	-33.6	-33.6	-33.6	-33.6	-33.5	-33.5	-33.5
10.3	-33.5	-33.5	-33.5	-33.5	-33.4	-33.4	-33.4	-33.4	-33.4	-33.4
10.4	-33.4	-33.4	-33.3	-33.3	-33.3	-33.3	-33.3	-33.3	-33.3	-33.2
10.5	-33.2	-33.2	-33.2	-33.2	-33.2	-33.2	-33.2	-33.1	-33.1	-33.1
10.6	-33.1	-33.1	-33.1	-33.1	-33.1	-33.0	-33.0	-33.0	-33.0	-33.0
10.7	-33.0	-33.0	-32.9	-32.9	-32.9	-32.9	-32.9	-32.9	-32.9	-32.9
10.8	-32.8	-32.8	-32.8	-32.8	-32.8	-32.8	-32.8	-32.7	-32.7	-32.7
10.9	-32.7	-32.7	-32.7	-32.7	-32.7	-32.6	-32.6	-32.6	-32.6	-32.6
11.0	-32.6	-32.6	-32.6	-32.5	-32.5	-32.5	-32.5	-32.5	-32.5	-32.5
11.1	-32.4	-32.4	-32.4	-32.4	-32.4	-32.4	-32.4	-32.4	-32.3	-32.3
11.2	-32.3	-32.3	-32.3	-32.3	-32.3	-32.2	-32.2	-32.2	-32.2	-32.2
11.3	-32.2	-32.2	-32.2	-32.1	-32.1	-32.1	-32.1	-32.1	-32.1	-32.1
11.4	-32.1	-32.0	-32.0	-32.0	-32.0	-32.0	-32.0	-32.0	-31.9	-31.9
11.5	-31.9	-31.9	-31.9	-31.9	-31.9	-31.9	-31.8	-31.8	-31.8	-31.8
11.6	-31.8	-31.8	-31.8	-31.7	-31.7	-31.7	-31.7	-31.7	-31.7	-31.7
11.7	-31.7	-31.6	-31.6	-31.6	-31.6	-31.6	-31.6	-31.6	-31.5	-31.5
11.8	-31.5	-31.5	-31.5	-31.5	-31.5	-31.5	-31.4	-31.4	-31.4	-31.4
11.9	-31.4	-31.4	-31.4	-31.4	-31.3	-31.3	-31.3	-31.3	-31.3	-31.3
12.0	-31.3	-31.2	-31.2	-31.2	-31.2	-31.2	-31.2	-31.2	-31.2	-31.1
12.1	-31.1	-31.1	-31.1	-31.1	-31.1	-31.1	-31.0	-31.0	-31.0	-31.0
12.2	-31.0	-31.0	-31.0	-31.0	-30.9	-30.9	-30.9	-30.9	-30.9	-30.9
12.3	-30.9	-30.8	-30.8	-30.8	-30.8	-30.8	-30.8	-30.8	-30.8	-30.7
12.4	-30.7	-30.7	-30.7	-30.7	-30.7	-30.7	-30.7	-30.6	-30.6	-30.6
12.5	-30.6	-30.6	-30.6	-30.6	-30.5	-30.5	-30.5	-30.5	-30.5	-30.5
12.6	-30.5	-30.5	-30.4	-30.4	-30.4	-30.4	-30.4	-30.4	-30.4	-30.3
12.7	-30.3	-30.3	-30.3	-30.3	-30.3	-30.3	-30.3	-30.2	-30.2	-30.2
12.8	-30.2	-30.2	-30.2	-30.2	-30.1	-30.1	-30.1	-30.1	-30.1	-30.1
12.9	-30.1	-30.1	-30.0	-30.0	-30.0	-30.0	-30.0	-30.0	-30.0	-30.0
13.0	-29.9	-29.9	-29.9	-29.9	-29.9	-29.9	-29.9	-29.8	-29.8	-29.8
13.1	-29.8	-29.8	-29.8	-29.8	-29.8	-29.7	-29.7	-29.7	-29.7	-29.7
13.2	-29.7	-29.7	-29.6	-29.6	-29.6	-29.6	-29.6	-29.6	-29.6	-29.6
13.3	-29.5	-29.5	-29.5	-29.5	-29.5	-29.5	-29.5	-29.4	-29.4	-29.4
13.4	-29.4	-29.4	-29.4	-29.4	-29.4	-29.3	-29.3	-29.3	-29.3	-29.3
13.5	-29.3	-29.3	-29.2	-29.2	-29.2	-29.2	-29.2	-29.2	-29.2	-29.2
13.6	-29.1	-29.1	-29.1	-29.1	-29.1	-29.1	-29.1	-29.0	-29.0	-29.0
13.7	-29.0	-29.0	-29.0	-29.0	-29.0	-28.9	-28.9	-28.9	-28.9	-28.9
13.8	-28.9	-28.9	-28.9	-28.8	-28.8	-28.8	-28.8	-28.8	-28.8	-28.8
13.9	-28.7	-28.7	-28.7	-28.7	-28.7	-28.7	-28.7	-28.7	-28.6	-28.6

14.0	-28.6	-28.6	-28.6	-28.6	-28.6	-28.5	-28.5	-28.5	-28.5	-28.5
14.1	-28.5	-28.5	-28.5	-28.4	-28.4	-28.4	-28.4	-28.4	-28.4	-28.4
14.2	-28.3	-28.3	-28.3	-28.3	-28.3	-28.3	-28.3	-28.3	-28.2	-28.2
14.3	-28.2	-28.2	-28.2	-28.2	-28.2	-28.1	-28.1	-28.1	-28.1	-28.1
14.4	-28.1	-28.1	-28.1	-28.0	-28.0	-28.0	-28.0	-28.0	-28.0	-28.0
14.5	-27.9	-27.9	-27.9	-27.9	-27.9	-27.9	-27.9	-27.9	-27.8	-27.8
14.6	-27.8	-27.8	-27.8	-27.8	-27.8	-27.7	-27.7	-27.7	-27.7	-27.7
14.7	-27.7	-27.7	-27.7	-27.6	-27.6	-27.6	-27.6	-27.6	-27.6	-27.6
14.8	-27.5	-27.5	-27.5	-27.5	-27.5	-27.5	-27.5	-27.5	-27.4	-27.4
14.9	-27.4	-27.4	-27.4	-27.4	-27.4	-27.3	-27.3	-27.3	-27.3	-27.3
15.0	-27.3	-27.3	-27.3	-27.2	-27.2	-27.2	-27.2	-27.2	-27.2	-27.2
15.1	-27.1	-27.1	-27.1	-27.1	-27.1	-27.1	-27.1	-27.1	-27.0	-27.0
15.2	-27.0	-27.0	-27.0	-27.0	-27.0	-27.0	-26.9	-26.9	-26.9	-26.9
15.3	-26.9	-26.9	-26.9	-26.8	-26.8	-26.8	-26.8	-26.8	-26.8	-26.8
15.4	-26.8	-26.7	-26.7	-26.7	-26.7	-26.7	-26.7	-26.7	-26.6	-26.6
15.5	-26.6	-26.6	-26.6	-26.6	-26.6	-26.6	-26.5	-26.5	-26.5	-26.5
15.6	-26.5	-26.5	-26.5	-26.4	-26.4	-26.4	-26.4	-26.4	-26.4	-26.4
15.7	-26.4	-26.3	-26.3	-26.3	-26.3	-26.3	-26.3	-26.3	-26.2	-26.2
15.8	-26.2	-26.2	-26.2	-26.2	-26.2	-26.2	-26.1	-26.1	-26.1	-26.1
15.9	-26.1	-26.1	-26.1	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0	-26.0
16.0	-26.0	-25.9	-25.9	-25.9	-25.9	-25.9	-25.9	-25.9	-25.8	-25.8
16.1	-25.8	-25.8	-25.8	-25.8	-25.8	-25.8	-25.7	-25.7	-25.7	-25.7
16.2	-25.7	-25.7	-25.7	-25.6	-25.6	-25.6	-25.6	-25.6	-25.6	-25.6
16.3	-25.6	-25.5	-25.5	-25.5	-25.5	-25.5	-25.5	-25.5	-25.4	-25.4
16.4	-25.4	-25.4	-25.4	-25.4	-25.4	-25.4	-25.3	-25.3	-25.3	-25.3
16.5	-25.3	-25.3	-25.3	-25.2	-25.2	-25.2	-25.2	-25.2	-25.2	-25.2
16.6	-25.2	-25.1	-25.1	-25.1	-25.1	-25.1	-25.1	-25.1	-25.0	-25.0
16.7	-25.0	-25.0	-25.0	-25.0	-25.0	-24.9	-24.9	-24.9	-24.9	-24.9
16.8	-24.9	-24.9	-24.9	-24.8	-24.8	-24.8	-24.8	-24.8	-24.8	-24.8
16.9	-24.7	-24.7	-24.7	-24.7	-24.7	-24.7	-24.7	-24.7	-24.6	-24.6
17.0	-24.6	-24.6	-24.6	-24.6	-24.6	-24.5	-24.5	-24.5	-24.5	-24.5
17.1	-24.5	-24.5	-24.5	-24.4	-24.4	-24.4	-24.4	-24.4	-24.4	-24.4
17.2	-24.3	-24.3	-24.3	-24.3	-24.3	-24.3	-24.3	-24.3	-24.2	-24.2
17.3	-24.2	-24.2	-24.2	-24.2	-24.2	-24.1	-24.1	-24.1	-24.1	-24.1
17.4	-24.1	-24.1	-24.1	-24.0	-24.0	-24.0	-24.0	-24.0	-24.0	-24.0
17.5	-23.9	-23.9	-23.9	-23.9	-23.9	-23.9	-23.9	-23.9	-23.8	-23.8
17.6	-23.8	-23.8	-23.8	-23.8	-23.8	-23.7	-23.7	-23.7	-23.7	-23.7
17.7	-23.7	-23.7	-23.7	-23.6	-23.6	-23.6	-23.6	-23.6	-23.6	-23.6
17.8	-23.5	-23.5	-23.5	-23.5	-23.5	-23.5	-23.5	-23.5	-23.4	-23.4
17.9	-23.4	-23.4	-23.4	-23.4	-23.4	-23.3	-23.3	-23.3	-23.3	-23.3
18.0	-23.3	-23.3	-23.3	-23.2	-23.2	-23.2	-23.2	-23.2	-23.2	-23.2
18.1	-23.1	-23.1	-23.1	-23.1	-23.1	-23.1	-23.1	-23.0	-23.0	-23.0
18.2	-23.0	-23.0	-23.0	-23.0	-23.0	-22.9	-22.9	-22.9	-22.9	-22.9
18.3	-22.9	-22.9	-22.8	-22.8	-22.8	-22.8	-22.8	-22.8	-22.8	-22.8
18.4	-22.7	-22.7	-22.7	-22.7	-22.7	-22.7	-22.7	-22.6	-22.6	-22.6
18.5	-22.6	-22.6	-22.6	-22.6	-22.6	-22.5	-22.5	-22.5	-22.5	-22.5
18.6	-22.5	-22.5	-22.4	-22.4	-22.4	-22.4	-22.4	-22.4	-22.4	-22.4
18.7	-22.3	-22.3	-22.3	-22.3	-22.3	-22.3	-22.3	-22.2	-22.2	-22.2
18.8	-22.2	-22.2	-22.2	-22.2	-22.1	-22.1	-22.1	-22.1	-22.1	-22.1
18.9	-22.1	-22.1	-22.0	-22.0	-22.0	-22.0	-22.0	-22.0	-22.0	-21.9

TABLE 4. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR CHANGES IN SALINITY (‰), V_s - Continued

S	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
19.0	-21.9	-21.9	-21.9	-21.9	-21.9	-21.9	-21.9	-21.8	-21.8	-21.8
19.1	-21.8	-21.8	-21.8	-21.8	-21.7	-21.7	-21.7	-21.7	-21.7	-21.7
19.2	-21.7	-21.7	-21.6	-21.6	-21.6	-21.6	-21.6	-21.6	-21.6	-21.5
19.3	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.5	-21.4	-21.4	-21.4
19.4	-21.4	-21.4	-21.4	-21.4	-21.3	-21.3	-21.3	-21.3	-21.3	-21.3
19.5	-21.3	-21.2	-21.2	-21.2	-21.2	-21.2	-21.2	-21.2	-21.2	-21.1
19.6	-21.1	-21.1	-21.1	-21.1	-21.1	-21.1	-21.0	-21.0	-21.0	-21.0
19.7	-21.0	-21.0	-21.0	-21.0	-20.9	-20.9	-20.9	-20.9	-20.9	-20.9
19.8	-20.9	-20.8	-20.8	-20.8	-20.8	-20.8	-20.8	-20.8	-20.8	-20.7
19.9	-20.7	-20.7	-20.7	-20.7	-20.7	-20.7	-20.6	-20.6	-20.6	-20.6
20.0	-20.6	-20.6	-20.6	-20.5	-20.5	-20.5	-20.5	-20.5	-20.5	-20.5
20.1	-20.5	-20.4	-20.4	-20.4	-20.4	-20.4	-20.4	-20.4	-20.3	-20.3
20.2	-20.3	-20.3	-20.3	-20.3	-20.3	-20.3	-20.2	-20.2	-20.2	-20.2
20.3	-20.2	-20.2	-20.2	-20.1	-20.1	-20.1	-20.1	-20.1	-20.1	-20.1
20.4	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-19.9	-19.9
20.5	-19.9	-19.9	-19.9	-19.9	-19.9	-19.8	-19.8	-19.8	-19.8	-19.8
20.6	-19.8	-19.8	-19.8	-19.7	-19.7	-19.7	-19.7	-19.7	-19.7	-19.7
20.7	-19.6	-19.6	-19.6	-19.6	-19.6	-19.6	-19.6	-19.6	-19.5	-19.5
20.8	-19.5	-19.5	-19.5	-19.5	-19.5	-19.4	-19.4	-19.4	-19.4	-19.4
20.9	-19.4	-19.4	-19.3	-19.3	-19.3	-19.3	-19.3	-19.3	-19.3	-19.3
21.0	-19.2	-19.2	-19.2	-19.2	-19.2	-19.2	-19.2	-19.1	-19.1	-19.1
21.1	-19.1	-19.1	-19.1	-19.1	-19.1	-19.0	-19.0	-19.0	-19.0	-19.0
21.2	-19.0	-19.0	-18.9	-18.9	-18.9	-18.9	-18.9	-18.9	-18.9	-18.8
21.3	-18.8	-18.8	-18.8	-18.8	-18.8	-18.8	-18.8	-18.7	-18.7	-18.7
21.4	-18.7	-18.7	-18.7	-18.7	-18.6	-18.6	-18.6	-18.6	-18.6	-18.6
21.5	-18.6	-18.6	-18.5	-18.5	-18.5	-18.5	-18.5	-18.5	-18.5	-18.4
21.6	-18.4	-18.4	-18.4	-18.4	-18.4	-18.4	-18.3	-18.3	-18.3	-18.3
21.7	-18.3	-18.3	-18.3	-18.3	-18.2	-18.2	-18.2	-18.2	-18.2	-18.2
21.8	-18.2	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1	-18.1	-18.0
21.9	-18.0	-18.0	-18.0	-18.0	-18.0	-18.0	-17.9	-17.9	-17.9	-17.9
22.0	-17.9	-17.9	-17.9	-17.8	-17.8	-17.8	-17.8	-17.8	-17.8	-17.8
22.1	-17.8	-17.7	-17.7	-17.7	-17.7	-17.7	-17.7	-17.7	-17.6	-17.6
22.2	-17.6	-17.6	-17.6	-17.6	-17.6	-17.5	-17.5	-17.5	-17.5	-17.5
22.3	-17.5	-17.5	-17.5	-17.4	-17.4	-17.4	-17.4	-17.4	-17.4	-17.4
22.4	-17.3	-17.3	-17.3	-17.3	-17.3	-17.3	-17.3	-17.3	-17.2	-17.2
22.5	-17.2	-17.2	-17.2	-17.2	-17.2	-17.1	-17.1	-17.1	-17.1	-17.1
22.6	-17.1	-17.1	-17.0	-17.0	-17.0	-17.0	-17.0	-17.0	-17.0	-17.0
22.7	-16.9	-16.9	-16.9	-16.9	-16.9	-16.9	-16.9	-16.8	-16.8	-16.8
22.8	-16.8	-16.8	-16.8	-16.8	-16.7	-16.7	-16.7	-16.7	-16.7	-16.7
22.9	-16.7	-16.7	-16.6	-16.6	-16.6	-16.6	-16.6	-16.6	-16.6	-16.5
23.0	-16.5	-16.5	-16.5	-16.5	-16.5	-16.5	-16.5	-16.4	-16.4	-16.4
23.1	-16.4	-16.4	-16.4	-16.4	-16.3	-16.3	-16.3	-16.3	-16.3	-16.3
23.2	-16.3	-16.2	-16.2	-16.2	-16.2	-16.2	-16.2	-16.2	-16.2	-16.1
23.3	-16.1	-16.1	-16.1	-16.1	-16.1	-16.1	-16.0	-16.0	-16.0	-16.0
23.4	-16.0	-16.0	-16.0	-15.9	-15.9	-15.9	-15.9	-15.9	-15.9	-15.9

23.5	-15.9	-15.8	-15.8	-15.8	-15.8	-15.8	-15.8	-15.8	-15.7	-15.7
23.6	-15.7	-15.7	-15.7	-15.7	-15.7	-15.6	-15.6	-15.6	-15.6	-15.6
23.7	-15.6	-15.6	-15.6	-15.5	-15.5	-15.5	-15.5	-15.5	-15.5	-15.5
23.8	-15.4	-15.4	-15.4	-15.4	-15.4	-15.4	-15.4	-15.4	-15.3	-15.3
23.9	-15.3	-15.3	-15.3	-15.3	-15.3	-15.2	-15.2	-15.2	-15.2	-15.2
24.0	-15.2	-15.2	-15.1	-15.1	-15.1	-15.1	-15.1	-15.1	-15.1	-15.1
24.1	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-15.0	-14.9	-14.9	-14.9
24.2	-14.9	-14.9	-14.9	-14.9	-14.8	-14.8	-14.8	-14.8	-14.8	-14.8
24.3	-14.8	-14.8	-14.7	-14.7	-14.7	-14.7	-14.7	-14.7	-14.7	-14.6
24.4	-14.6	-14.6	-14.6	-14.6	-14.6	-14.6	-14.5	-14.5	-14.5	-14.5
24.5	-14.5	-14.5	-14.5	-14.5	-14.4	-14.4	-14.4	-14.4	-14.4	-14.4
24.6	-14.4	-14.3	-14.3	-14.3	-14.3	-14.3	-14.3	-14.3	-14.2	-14.2
24.7	-14.2	-14.2	-14.2	-14.2	-14.2	-14.2	-14.1	-14.1	-14.1	-14.1
24.8	-14.1	-14.1	-14.1	-14.0	-14.0	-14.0	-14.0	-14.0	-14.0	-14.0
24.9	-13.9	-13.9	-13.9	-13.9	-13.9	-13.9	-13.9	-13.9	-13.8	-13.8
25.0	-13.8	-13.8	-13.8	-13.8	-13.8	-13.7	-13.7	-13.7	-13.7	-13.7
25.1	-13.7	-13.7	-13.6	-13.6	-13.6	-13.6	-13.6	-13.6	-13.6	-13.6
25.2	-13.5	-13.5	-13.5	-13.5	-13.5	-13.5	-13.5	-13.4	-13.4	-13.4
25.3	-13.4	-13.4	-13.4	-13.4	-13.3	-13.3	-13.3	-13.3	-13.3	-13.3
25.4	-13.3	-13.3	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2	-13.2	-13.1
25.5	-13.1	-13.1	-13.1	-13.1	-13.1	-13.1	-13.0	-13.0	-13.0	-13.0
25.6	-13.0	-13.0	-13.0	-13.0	-12.9	-12.9	-12.9	-12.9	-12.9	-12.9
25.7	-12.9	-12.8	-12.8	-12.8	-12.8	-12.8	-12.8	-12.8	-12.7	-12.7
25.8	-12.7	-12.7	-12.7	-12.7	-12.7	-12.6	-12.6	-12.6	-12.6	-12.6
25.9	-12.6	-12.6	-12.6	-12.5	-12.5	-12.5	-12.5	-12.5	-12.5	-12.5
26.0	-12.4	-12.4	-12.4	-12.4	-12.4	-12.4	-12.4	-12.3	-12.3	-12.3
26.1	-12.3	-12.3	-12.3	-12.3	-12.3	-12.2	-12.2	-12.2	-12.2	-12.2
26.2	-12.2	-12.2	-12.1	-12.1	-12.1	-12.1	-12.1	-12.1	-12.1	-12.0
26.3	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-12.0	-11.9	-11.9	-11.9
26.4	-11.9	-11.9	-11.9	-11.9	-11.8	-11.8	-11.8	-11.8	-11.8	-11.8
26.5	-11.8	-11.7	-11.7	-11.7	-11.7	-11.7	-11.7	-11.7	-11.7	-11.6
26.6	-11.6	-11.6	-11.6	-11.6	-11.6	-11.6	-11.5	-11.5	-11.5	-11.5
26.7	-11.5	-11.5	-11.5	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4	-11.4
26.8	-11.3	-11.3	-11.3	-11.3	-11.3	-11.3	-11.3	-11.3	-11.2	-11.2
26.9	-11.2	-11.2	-11.2	-11.2	-11.2	-11.1	-11.1	-11.1	-11.1	-11.1
27.0	-11.1	-11.1	-11.0	-11.0	-11.0	-11.0	-11.0	-11.0	-11.0	-11.0
27.1	-10.9	-10.9	-10.9	-10.9	-10.9	-10.9	-10.9	-10.8	-10.8	-10.8
27.2	-10.8	-10.8	-10.8	-10.8	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7
27.3	-10.7	-10.7	-10.6	-10.6	-10.6	-10.6	-10.6	-10.6	-10.6	-10.5
27.4	-10.5	-10.5	-10.5	-10.5	-10.5	-10.5	-10.4	-10.4	-10.4	-10.4
27.5	-10.4	-10.4	-10.4	-10.3	-10.3	-10.3	-10.3	-10.3	-10.3	-10.3
27.6	-10.3	-10.2	-10.2	-10.2	-10.2	-10.2	-10.2	-10.2	-10.1	-10.1
27.7	-10.1	-10.1	-10.1	-10.1	-10.1	-10.0	-10.0	-10.0	-10.0	-10.0
27.8	-10.0	-10.0	-10.0	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
27.9	-9.8	-9.8	-9.8	-9.8	-9.8	-9.8	-9.8	-9.7	-9.7	-9.7
28.0	-9.7	-9.7	-9.7	-9.7	-9.6	-9.6	-9.6	-9.6	-9.6	-9.6
28.1	-9.6	-9.6	-9.5	-9.5	-9.5	-9.5	-9.5	-9.5	-9.5	-9.4
28.2	-9.4	-9.4	-9.4	-9.4	-9.4	-9.4	-9.3	-9.3	-9.3	-9.3
28.3	-9.3	-9.3	-9.3	-9.2	-9.2	-9.2	-9.2	-9.2	-9.2	-9.2
28.4	-9.2	-9.1	-9.1	-9.1	-9.1	-9.1	-9.1	-9.1	-9.0	-9.0

TABLE 4. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR CHANGES IN SALINITY (‰), V_s - Continued

S	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
28.5	-9.0	-9.0	-9.0	-9.0	-9.0	-8.9	-8.9	-8.9	-8.9	-8.9
28.6	-8.9	-8.9	-8.9	-8.8	-8.8	-8.8	-8.8	-8.8	-8.8	-8.8
28.7	-8.7	-8.7	-8.7	-8.7	-8.7	-8.7	-8.7	-8.6	-8.6	-8.6
28.8	-8.6	-8.6	-8.6	-8.6	-8.5	-8.5	-8.5	-8.5	-8.5	-8.5
28.9	-8.5	-8.5	-8.4	-8.4	-8.4	-8.4	-8.4	-8.4	-8.4	-8.3
29.0	-8.3	-8.3	-8.3	-8.3	-8.3	-8.3	-8.2	-8.2	-8.2	-8.2
29.1	-8.2	-8.2	-8.2	-8.1	-8.1	-8.1	-8.1	-8.1	-8.1	-8.1
29.2	-8.1	-8.0	-8.0	-8.0	-8.0	-8.0	-8.0	-8.0	-7.9	-7.9
29.3	-7.9	-7.9	-7.9	-7.9	-7.9	-7.8	-7.8	-7.8	-7.8	-7.8
29.4	-7.8	-7.8	-7.7	-7.7	-7.7	-7.7	-7.7	-7.7	-7.7	-7.7
29.5	-7.6	-7.6	-7.6	-7.6	-7.6	-7.6	-7.6	-7.5	-7.5	-7.5
29.6	-7.5	-7.5	-7.5	-7.5	-7.4	-7.4	-7.4	-7.4	-7.4	-7.4
29.7	-7.4	-7.3	-7.3	-7.3	-7.3	-7.3	-7.3	-7.3	-7.3	-7.2
29.8	-7.2	-7.2	-7.2	-7.2	-7.2	-7.2	-7.1	-7.1	-7.1	-7.1
29.9	-7.1	-7.1	-7.1	-7.0	-7.0	-7.0	-7.0	-7.0	-7.0	-7.0
30.0	-6.9	-6.9	-6.9	-6.9	-6.9	-6.9	-6.9	-6.9	-6.8	-6.8
30.1	-6.8	-6.8	-6.8	-6.8	-6.8	-6.7	-6.7	-6.7	-6.7	-6.7
30.2	-6.7	-6.7	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.5
30.3	-6.5	-6.5	-6.5	-6.5	-6.5	-6.5	-6.5	-6.4	-6.4	-6.4
30.4	-6.4	-6.4	-6.4	-6.4	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3
30.5	-6.3	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.2	-6.1	-6.1
30.6	-6.1	-6.1	-6.1	-6.1	-6.1	-6.0	-6.0	-6.0	-6.0	-6.0
30.7	-6.0	-6.0	-6.0	-5.9	-5.9	-5.9	-5.9	-5.9	-5.9	-5.9
30.8	-5.8	-5.8	-5.8	-5.8	-5.8	-5.8	-5.8	-5.7	-5.7	-5.7
30.9	-5.7	-5.7	-5.7	-5.7	-5.6	-5.6	-5.6	-5.6	-5.6	-5.6
31.0	-5.6	-5.6	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	-5.5	-5.4
31.1	-5.4	-5.4	-5.4	-5.4	-5.4	-5.4	-5.3	-5.3	-5.3	-5.3
31.2	-5.3	-5.3	-5.3	-5.2	-5.2	-5.2	-5.2	-5.2	-5.2	-5.2
31.3	-5.1	-5.1	-5.1	-5.1	-5.1	-5.1	-5.1	-5.1	-5.0	-5.0
31.4	-5.0	-5.0	-5.0	-5.0	-5.0	-4.9	-4.9	-4.9	-4.9	-4.9
31.5	-4.9	-4.9	-4.8	-4.8	-4.8	-4.8	-4.8	-4.8	-4.8	-4.7
31.6	-4.7	-4.7	-4.7	-4.7	-4.7	-4.7	-4.7	-4.6	-4.6	-4.6
31.7	-4.6	-4.6	-4.6	-4.6	-4.5	-4.5	-4.5	-4.5	-4.5	-4.5
31.8	-4.5	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4	-4.4	-4.3	-4.3
31.9	-4.3	-4.3	-4.3	-4.3	-4.3	-4.2	-4.2	-4.2	-4.2	-4.2
32.0	-4.2	-4.2	-4.2	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1	-4.1
32.1	-4.0	-4.0	-4.0	-4.0	-4.0	-4.0	-4.0	-3.9	-3.9	-3.9
32.2	-3.9	-3.9	-3.9	-3.9	-3.8	-3.8	-3.8	-3.8	-3.8	-3.8
32.3	-3.8	-3.7	-3.7	-3.7	-3.7	-3.7	-3.7	-3.7	-3.7	-3.6
32.4	-3.6	-3.6	-3.6	-3.6	-3.6	-3.6	-3.5	-3.5	-3.5	-3.5
32.5	-3.5	-3.5	-3.5	-3.4	-3.4	-3.4	-3.4	-3.4	-3.4	-3.4
32.6	-3.3	-3.3	-3.3	-3.3	-3.3	-3.3	-3.3	-3.2	-3.2	-3.2
32.7	-3.2	-3.2	-3.2	-3.2	-3.2	-3.1	-3.1	-3.1	-3.1	-3.1
32.8	-3.1	-3.1	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-2.9
32.9	-2.9	-2.9	-2.9	-2.9	-2.9	-2.9	-2.8	-2.8	-2.8	-2.8

33.0	-2.8	-2.8	-2.8	-2.7	-2.7	-2.7	-2.7	-2.7	-2.7	-2.7
33.1	-2.7	-2.6	-2.6	-2.6	-2.6	-2.6	-2.6	-2.6	-2.5	-2.5
33.2	-2.5	-2.5	-2.5	-2.5	-2.5	-2.4	-2.4	-2.4	-2.4	-2.4
33.3	-2.4	-2.4	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3	-2.2
33.4	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.1	-2.1	-2.1	-2.1
33.5	-2.1	-2.1	-2.1	-2.1	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
33.6	-2.0	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.9	-1.8	-1.8
33.7	-1.8	-1.8	-1.8	-1.8	-1.8	-1.7	-1.7	-1.7	-1.7	-1.7
33.8	-1.7	-1.7	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6	-1.5
33.9	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.4	-1.4	-1.4
34.0	-1.4	-1.4	-1.4	-1.4	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3
34.1	-1.3	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.1	-1.1
34.2	-1.1	-1.1	-1.1	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.0
34.3	-1.0	-1.0	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9
34.4	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.7	-0.7	-0.7
34.5	-0.7	-0.7	-0.7	-0.7	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6
34.6	-0.6	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.4	-0.4
34.7	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3	-0.3	-0.3	-0.3
34.8	-0.3	-0.3	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
34.9	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0
35.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
35.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
35.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4
35.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7
35.5	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
35.6	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0
35.7	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1
35.8	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
35.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.4
36.0	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5
36.1	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.7
36.2	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8
36.3	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
36.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1
36.5	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2
36.6	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4
36.7	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5
36.8	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6
36.9	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.8
37.0	2.8	2.8	2.8	2.8	2.9	2.9	2.9	2.9	2.9	2.9
37.1	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.1	3.1
37.2	3.1	3.1	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.2
37.3	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.4
37.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5	3.5	3.5
37.5	3.5	3.5	3.5	3.5	3.6	3.6	3.6	3.6	3.6	3.6
37.6	3.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.8	3.8
37.7	3.8	3.8	3.8	3.8	3.8	3.9	3.9	3.9	3.9	3.9
37.8	3.9	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.1
37.9	4.1	4.1	4.1	4.1	4.1	4.1	4.2	4.2	4.2	4.2

TABLE 4. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR CHANGES IN SALINITY (‰), V_s - Continued

S	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
38.0	4.2	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3
38.1	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.5	4.5
38.2	4.5	4.5	4.5	4.5	4.5	4.6	4.6	4.6	4.6	4.6
38.3	4.6	4.6	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.8
38.4	4.8	4.8	4.8	4.8	4.8	4.8	4.9	4.9	4.9	4.9
38.5	4.9	4.9	4.9	5.0	5.0	5.0	5.0	5.0	5.0	5.0
38.6	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.2	5.2	5.2
38.7	5.2	5.2	5.2	5.2	5.3	5.3	5.3	5.3	5.3	5.3
38.8	5.3	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.5
38.9	5.5	5.5	5.5	5.5	5.5	5.5	5.6	5.6	5.6	5.6
39.0	5.6	5.6	5.6	5.7	5.7	5.7	5.7	5.7	5.7	5.7
39.1	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.9	5.9	5.9
39.2	5.9	5.9	5.9	5.9	6.0	6.0	6.0	6.0	6.0	6.0
39.3	6.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.2	6.2
39.4	6.2	6.2	6.2	6.2	6.2	6.3	6.3	6.3	6.3	6.3
39.5	6.3	6.3	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.5
39.6	6.5	6.5	6.5	6.5	6.5	6.5	6.6	6.6	6.6	6.6
39.7	6.6	6.6	6.6	6.7	6.7	6.7	6.7	6.7	6.7	6.7
39.8	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.9	6.9
39.9	6.9	6.9	6.9	6.9	6.9	7.0	7.0	7.0	7.0	7.0
40.0	7.0	7.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.2
40.1	7.2	7.2	7.2	7.2	7.2	7.2	7.3	7.3	7.3	7.3
40.2	7.3	7.3	7.3	7.4	7.4	7.4	7.4	7.4	7.4	7.4
40.3	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.6	7.6	7.6
40.4	7.6	7.6	7.6	7.6	7.7	7.7	7.7	7.7	7.7	7.7
40.5	7.7	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.9	7.9
40.6	7.9	7.9	7.9	7.9	7.9	8.0	8.0	8.0	8.0	8.0
40.7	8.0	8.0	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.2
40.8	8.2	8.2	8.2	8.2	8.2	8.2	8.3	8.3	8.3	8.3
40.9	8.3	8.3	8.3	8.3	8.4	8.4	8.4	8.4	8.4	8.4
41.0	8.4	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.6	8.6
41.1	8.6	8.6	8.6	8.6	8.6	8.7	8.7	8.7	8.7	8.7
41.2	8.7	8.7	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.9
41.3	8.9	8.9	8.9	8.9	8.9	8.9	9.0	9.0	9.0	9.0
41.4	9.0	9.0	9.0	9.1	9.1	9.1	9.1	9.1	9.1	9.1
41.5	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.3	9.3	9.3
41.6	9.3	9.3	9.3	9.3	9.4	9.4	9.4	9.4	9.4	9.4
41.7	9.4	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.6	9.6
41.8	9.6	9.6	9.6	9.6	9.6	9.7	9.7	9.7	9.7	9.7
41.9	9.7	9.7	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.9

TABLE 5. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR CHANGES IN TEMPERATURE (°C), V_t

T	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
-2.5	-11.7	-11.8	-11.8	-11.8	-11.9	-11.9	-12.0	-12.0	-12.1	-12.1
-2.4	-11.2	-11.3	-11.3	-11.4	-11.4	-11.5	-11.5	-11.6	-11.6	-11.7
-2.3	-10.7	-10.8	-10.8	-10.9	-10.9	-11.0	-11.0	-11.1	-11.1	-11.2
-2.2	-10.3	-10.3	-10.4	-10.4	-10.5	-10.5	-10.6	-10.6	-10.7	-10.7
-2.1	-9.8	-9.8	-9.9	-9.9	-10.0	-10.0	-10.1	-10.1	-10.2	-10.2
-2.0	-9.3	-9.4	-9.4	-9.5	-9.5	-9.6	-9.6	-9.7	-9.7	-9.7
-1.9	-8.8	-8.9	-8.9	-9.0	-9.0	-9.1	-9.1	-9.2	-9.2	-9.3
-1.8	-8.4	-8.4	-8.5	-8.5	-8.6	-8.6	-8.7	-8.7	-8.8	-8.8
-1.7	-7.9	-7.9	-8.0	-8.0	-8.1	-8.1	-8.2	-8.2	-8.3	-8.3
-1.6	-7.4	-7.5	-7.5	-7.6	-7.6	-7.7	-7.7	-7.8	-7.8	-7.9
-1.5	-7.0	-7.0	-7.1	-7.1	-7.1	-7.2	-7.2	-7.3	-7.3	-7.4
-1.4	-6.5	-6.5	-6.6	-6.6	-6.7	-6.7	-6.8	-6.8	-6.9	-6.9
-1.3	-6.0	-6.1	-6.1	-6.2	-6.2	-6.3	-6.3	-6.3	-6.4	-6.4
-1.2	-5.6	-5.6	-5.6	-5.7	-5.7	-5.8	-5.8	-5.9	-5.9	-6.0
-1.1	-5.1	-5.1	-5.2	-5.2	-5.3	-5.3	-5.4	-5.4	-5.5	-5.5
-1.0	-4.6	-4.7	-4.7	-4.8	-4.8	-4.8	-4.9	-4.9	-5.0	-5.0
-0.9	-4.2	-4.2	-4.2	-4.3	-4.3	-4.4	-4.4	-4.5	-4.5	-4.6
-0.8	-3.7	-3.7	-3.8	-3.8	-3.9	-3.9	-4.0	-4.0	-4.1	-4.1
-0.7	-3.2	-3.3	-3.3	-3.4	-3.4	-3.5	-3.5	-3.5	-3.6	-3.6
-0.6	-2.8	-2.8	-2.9	-2.9	-2.9	-3.0	-3.0	-3.1	-3.1	-3.2
-0.5	-2.3	-2.3	-2.4	-2.4	-2.5	-2.5	-2.6	-2.6	-2.7	-2.7
-0.4	-1.8	-1.9	-1.9	-2.0	-2.0	-2.1	-2.1	-2.2	-2.2	-2.3
-0.3	-1.4	-1.4	-1.5	-1.5	-1.6	-1.6	-1.7	-1.7	-1.7	-1.8
-0.2	-0.9	-1.0	-1.0	-1.1	-1.1	-1.1	-1.2	-1.2	-1.3	-1.3
-0.1	-0.5	-0.5	-0.5	-0.6	-0.6	-0.7	-0.7	-0.8	-0.8	-0.9
0.0	0.0	-0.0	-0.1	-0.1	-0.2	-0.2	-0.3	-0.3	-0.4	-0.4
0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4
0.1	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.9
0.2	0.9	1.0	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.3
0.3	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.7	1.7	1.8
0.4	1.8	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.2	2.2
0.5	2.3	2.3	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.7
0.6	2.7	2.8	2.8	2.9	2.9	3.0	3.0	3.0	3.1	3.1
0.7	3.2	3.2	3.3	3.3	3.4	3.4	3.4	3.5	3.5	3.6
0.8	3.6	3.7	3.7	3.8	3.8	3.9	3.9	3.9	4.0	4.0
0.9	4.1	4.1	4.2	4.2	4.3	4.3	4.3	4.4	4.4	4.5
1.0	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	4.9	4.9
1.1	5.0	5.0	5.1	5.1	5.2	5.2	5.2	5.3	5.3	5.4
1.2	5.4	5.5	5.5	5.6	5.6	5.6	5.7	5.7	5.8	5.8
1.3	5.9	5.9	6.0	6.0	6.0	6.1	6.1	6.2	6.2	6.3
1.4	6.3	6.4	6.4	6.4	6.5	6.5	6.6	6.6	6.7	6.7
1.5	6.8	6.8	6.8	6.9	6.9	7.0	7.0	7.1	7.1	7.2
1.6	7.2	7.2	7.3	7.3	7.4	7.4	7.5	7.5	7.6	7.6
1.7	7.6	7.7	7.7	7.8	7.8	7.9	7.9	8.0	8.0	8.0
1.8	8.1	8.1	8.2	8.2	8.3	8.3	8.3	8.4	8.4	8.5

1.9	8.5	8.6	8.6	8.7	8.7	8.7	8.8	8.8	8.9	8.9
2.0	9.0	9.0	9.1	9.1	9.1	9.2	9.2	9.3	9.3	9.4
2.1	9.4	9.4	9.5	9.5	9.6	9.6	9.7	9.7	9.8	9.8
2.2	9.8	9.9	9.9	10.0	10.0	10.1	10.1	10.1	10.2	10.2
2.3	10.3	10.3	10.4	10.4	10.5	10.5	10.5	10.6	10.6	10.7
2.4	10.7	10.8	10.8	10.8	10.9	10.9	11.0	11.0	11.1	11.1
2.5	11.1	11.2	11.2	11.3	11.3	11.4	11.4	11.5	11.5	11.5
2.6	11.6	11.6	11.7	11.7	11.8	11.8	11.8	11.9	11.9	12.0
2.7	12.0	12.1	12.1	12.1	12.2	12.2	12.3	12.3	12.4	12.4
2.8	12.4	12.5	12.5	12.6	12.6	12.7	12.7	12.7	12.8	12.8
2.9	12.9	12.9	13.0	13.0	13.1	13.1	13.1	13.2	13.2	13.3
3.0	13.3	13.4	13.4	13.4	13.5	13.5	13.6	13.6	13.7	13.7
3.1	13.7	13.8	13.8	13.9	13.9	14.0	14.0	14.0	14.1	14.1
3.2	14.2	14.2	14.3	14.3	14.3	14.4	14.4	14.5	14.5	14.6
3.3	14.6	14.6	14.7	14.7	14.8	14.8	14.9	14.9	14.9	15.0
3.4	15.0	15.1	15.1	15.1	15.2	15.2	15.3	15.3	15.4	15.4
3.5	15.4	15.5	15.5	15.6	15.6	15.7	15.7	15.7	15.8	15.8
3.6	15.9	15.9	16.0	16.0	16.0	16.1	16.1	16.2	16.2	16.3
3.7	16.3	16.3	16.4	16.4	16.5	16.5	16.5	16.6	16.6	16.7
3.8	16.7	16.8	16.8	16.8	16.9	16.9	17.0	17.0	17.1	17.1
3.9	17.1	17.2	17.2	17.3	17.3	17.4	17.4	17.4	17.5	17.5
4.0	17.6	17.6	17.6	17.7	17.7	17.8	17.8	17.9	17.9	17.9
4.1	18.0	18.0	18.1	18.1	18.1	18.2	18.2	18.3	18.3	18.4
4.2	18.4	18.4	18.5	18.5	18.6	18.6	18.7	18.7	18.7	18.8
4.3	18.8	18.9	18.9	18.9	19.0	19.0	19.1	19.1	19.2	19.2
4.4	19.2	19.3	19.3	19.4	19.4	19.4	19.5	19.5	19.6	19.6
4.5	19.7	19.7	19.7	19.8	19.8	19.9	19.9	19.9	20.0	20.0
4.6	20.1	20.1	20.2	20.2	20.2	20.3	20.3	20.4	20.4	20.4
4.7	20.5	20.5	20.6	20.6	20.6	20.7	20.7	20.8	20.8	20.9
4.8	20.9	20.9	21.0	21.0	21.1	21.1	21.1	21.2	21.2	21.3
4.9	21.3	21.3	21.4	21.4	21.5	21.5	21.6	21.6	21.6	21.7
5.0	21.7	21.8	21.8	21.8	21.9	21.9	22.0	22.0	22.0	22.1
5.1	22.1	22.2	22.2	22.3	22.3	22.3	22.4	22.4	22.5	22.5
5.2	22.5	22.6	22.6	22.7	22.7	22.7	22.8	22.8	22.9	22.9
5.3	22.9	23.0	23.0	23.1	23.1	23.2	23.2	23.2	23.3	23.3
5.4	23.4	23.4	23.4	23.5	23.5	23.6	23.6	23.6	23.7	23.7
5.5	23.8	23.8	23.8	23.9	23.9	24.0	24.0	24.0	24.1	24.1
5.6	24.2	24.2	24.3	24.3	24.3	24.4	24.4	24.5	24.5	24.5
5.7	24.6	24.6	24.7	24.7	24.7	24.8	24.8	24.9	24.9	24.9
5.8	25.0	25.0	25.1	25.1	25.1	25.2	25.2	25.3	25.3	25.3
5.9	25.4	25.4	25.5	25.5	25.5	25.6	25.6	25.7	25.7	25.7
6.0	25.8	25.8	25.9	25.9	25.9	26.0	26.0	26.1	26.1	26.1
6.1	26.2	26.2	26.3	26.3	26.3	26.4	26.4	26.5	26.5	26.5
6.2	26.6	26.6	26.7	26.7	26.7	26.8	26.8	26.9	26.9	26.9
6.3	27.0	27.0	27.1	27.1	27.1	27.2	27.2	27.3	27.3	27.3
6.4	27.4	27.4	27.5	27.5	27.5	27.6	27.6	27.7	27.7	27.7
6.5	27.8	27.8	27.9	27.9	27.9	28.0	28.0	28.1	28.1	28.1
6.6	28.2	28.2	28.3	28.3	28.3	28.4	28.4	28.5	28.5	28.5
6.7	28.6	28.6	28.7	28.7	28.7	28.8	28.8	28.8	28.9	28.9
6.8	29.0	29.0	29.0	29.1	29.1	29.2	29.2	29.2	29.3	29.3

TABLE 5. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR CHANGES IN TEMPERATURE (°C), V_t - Continued

T	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
6.9	29.4	29.4	29.4	29.5	29.5	29.6	29.6	29.6	29.7	29.7
7.0	29.8	29.8	29.8	29.9	29.9	29.9	30.0	30.0	30.1	30.1
7.1	30.1	30.2	30.2	30.3	30.3	30.3	30.4	30.4	30.5	30.5
7.2	30.5	30.6	30.6	30.7	30.7	30.7	30.8	30.8	30.8	30.9
7.3	30.9	31.0	31.0	31.0	31.1	31.1	31.2	31.2	31.2	31.3
7.4	31.3	31.4	31.4	31.4	31.5	31.5	31.5	31.6	31.6	31.7
7.5	31.7	31.7	31.8	31.8	31.9	31.9	31.9	32.0	32.0	32.0
7.6	32.1	32.1	32.2	32.2	32.2	32.3	32.3	32.4	32.4	32.4
7.7	32.5	32.5	32.6	32.6	32.6	32.7	32.7	32.7	32.8	32.8
7.8	32.9	32.9	32.9	33.0	33.0	33.1	33.1	33.1	33.2	33.2
7.9	33.2	33.3	33.3	33.4	33.4	33.4	33.5	33.5	33.5	33.6
8.0	33.6	33.7	33.7	33.7	33.8	33.8	33.9	33.9	33.9	34.0
8.1	34.0	34.0	34.1	34.1	34.2	34.2	34.2	34.3	34.3	34.4
8.2	34.4	34.4	34.5	34.5	34.5	34.6	34.6	34.7	34.7	34.7
8.3	34.8	34.8	34.8	34.9	34.9	35.0	35.0	35.0	35.1	35.1
8.4	35.1	35.2	35.2	35.3	35.3	35.3	35.4	35.4	35.5	35.5
8.5	35.5	35.6	35.6	35.6	35.7	35.7	35.8	35.8	35.8	35.9
8.6	35.9	35.9	36.0	36.0	36.1	36.1	36.1	36.2	36.2	36.2
8.7	36.3	36.3	36.4	36.4	36.4	36.5	36.5	36.5	36.6	36.6
8.8	36.7	36.7	36.7	36.8	36.8	36.8	36.9	36.9	37.0	37.0
8.9	37.0	37.1	37.1	37.1	37.2	37.2	37.3	37.3	37.3	37.4
9.0	37.4	37.4	37.5	37.5	37.6	37.6	37.6	37.7	37.7	37.7
9.1	37.8	37.8	37.9	37.9	37.9	38.0	38.0	38.0	38.1	38.1
9.2	38.1	38.2	38.2	38.3	38.3	38.3	38.4	38.4	38.4	38.5
9.3	38.5	38.6	38.6	38.6	38.7	38.7	38.7	38.8	38.8	38.9
9.4	38.9	38.9	39.0	39.0	39.0	39.1	39.1	39.1	39.2	39.2
9.5	39.3	39.3	39.3	39.4	39.4	39.4	39.5	39.5	39.6	39.6
9.6	39.6	39.7	39.7	39.7	39.8	39.8	39.8	39.9	39.9	40.0
9.7	40.0	40.0	40.1	40.1	40.1	40.2	40.2	40.2	40.3	40.3
9.8	40.4	40.4	40.4	40.5	40.5	40.5	40.6	40.6	40.7	40.7
9.9	40.7	40.8	40.8	40.8	40.9	40.9	40.9	41.0	41.0	41.1
10.0	41.1	41.1	41.2	41.2	41.2	41.3	41.3	41.3	41.4	41.4
10.1	41.5	41.5	41.5	41.6	41.6	41.6	41.7	41.7	41.7	41.8
10.2	41.8	41.8	41.9	41.9	42.0	42.0	42.0	42.1	42.1	42.1
10.3	42.2	42.2	42.2	42.3	42.3	42.4	42.4	42.4	42.5	42.5
10.4	42.5	42.6	42.6	42.6	42.7	42.7	42.7	42.8	42.8	42.9
10.5	42.9	42.9	43.0	43.0	43.0	43.1	43.1	43.1	43.2	43.2
10.6	43.3	43.3	43.3	43.4	43.4	43.4	43.5	43.5	43.5	43.6
10.7	43.6	43.6	43.7	43.7	43.8	43.8	43.8	43.9	43.9	43.9
10.8	44.0	44.0	44.0	44.1	44.1	44.1	44.2	44.2	44.2	44.3
10.9	44.3	44.4	44.4	44.4	44.5	44.5	44.5	44.6	44.6	44.6
11.0	44.7	44.7	44.7	44.8	44.8	44.9	44.9	44.9	45.0	45.0
11.1	45.0	45.1	45.1	45.1	45.2	45.2	45.2	45.3	45.3	45.3
11.2	45.4	45.4	45.5	45.5	45.5	45.6	45.6	45.6	45.7	45.7
11.3	45.7	45.8	45.8	45.8	45.9	45.9	45.9	46.0	46.0	46.0

11.4	46.1	46.1	46.2	46.2	46.2	46.3	46.3	46.3	46.4	46.4
11.5	46.4	46.5	46.5	46.5	46.6	46.6	46.6	46.7	46.7	46.7
11.6	46.8	46.8	46.9	46.9	46.9	47.0	47.0	47.0	47.1	47.1
11.7	47.1	47.2	47.2	47.2	47.3	47.3	47.3	47.4	47.4	47.4
11.8	47.5	47.5	47.5	47.6	47.6	47.7	47.7	47.7	47.8	47.8
11.9	47.8	47.9	47.9	47.9	48.0	48.0	48.0	48.1	48.1	48.1
12.0	48.2	48.2	48.2	48.3	48.3	48.3	48.4	48.4	48.4	48.5
12.1	48.5	48.5	48.6	48.6	48.6	48.7	48.7	48.8	48.8	48.8
12.2	48.9	48.9	48.9	49.0	49.0	49.0	49.1	49.1	49.1	49.2
12.3	49.2	49.2	49.3	49.3	49.3	49.4	49.4	49.4	49.5	49.5
12.4	49.5	49.6	49.6	49.6	49.7	49.7	49.7	49.8	49.8	49.8
12.5	49.9	49.9	49.9	50.0	50.0	50.0	50.1	50.1	50.2	50.2
12.6	50.2	50.3	50.3	50.3	50.4	50.4	50.4	50.5	50.5	50.5
12.7	50.6	50.6	50.6	50.7	50.7	50.7	50.8	50.8	50.8	50.9
12.8	50.9	50.9	51.0	51.0	51.0	51.1	51.1	51.1	51.2	51.2
12.9	51.2	51.3	51.3	51.3	51.4	51.4	51.4	51.5	51.5	51.5
13.0	51.5	51.6	51.6	51.7	51.7	51.7	51.8	51.8	51.8	51.9
13.1	51.9	51.9	52.0	52.0	52.0	52.1	52.1	52.1	52.2	52.2
13.2	52.2	52.3	52.3	52.3	52.4	52.4	52.4	52.5	52.5	52.5
13.3	52.6	52.6	52.6	52.7	52.7	52.7	52.8	52.8	52.8	52.9
13.4	52.9	52.9	53.0	53.0	53.0	53.1	53.1	53.1	53.2	53.2
13.5	53.2	53.3	53.3	53.3	53.4	53.4	53.4	53.5	53.5	53.5
13.6	53.6	53.6	53.6	53.7	53.7	53.7	53.8	53.8	53.8	53.9
13.7	53.9	53.9	54.0	54.0	54.0	54.1	54.1	54.1	54.2	54.2
13.8	54.2	54.3	54.3	54.3	54.4	54.4	54.4	54.4	54.5	54.5
13.9	54.5	54.6	54.6	54.6	54.7	54.7	54.7	54.8	54.8	54.8
14.0	54.9	54.9	54.9	55.0	55.0	55.0	55.1	55.1	55.1	55.2
14.1	55.2	55.2	55.3	55.3	55.3	55.4	55.4	55.4	55.5	55.5
14.2	55.5	55.6	55.6	55.6	55.7	55.7	55.7	55.7	55.8	55.8
14.3	55.8	55.9	55.9	55.9	56.0	56.0	56.0	56.1	56.1	56.1
14.4	56.2	56.2	56.2	56.3	56.3	56.3	56.4	56.4	56.4	56.5
14.5	56.5	56.5	56.6	56.6	56.6	56.7	56.7	56.7	56.7	56.8
14.6	56.8	56.8	56.9	56.9	56.9	57.0	57.0	57.0	57.1	57.1
14.7	57.1	57.2	57.2	57.2	57.3	57.3	57.3	57.4	57.4	57.4
14.8	57.5	57.5	57.5	57.5	57.6	57.6	57.6	57.7	57.7	57.7
14.9	57.8	57.8	57.8	57.9	57.9	57.9	58.0	58.0	58.0	58.1
15.0	58.1	58.1	58.2	58.2	58.2	58.2	58.3	58.3	58.3	58.4
15.1	58.4	58.4	58.5	58.5	58.5	58.6	58.6	58.6	58.7	58.7
15.2	58.7	58.8	58.8	58.8	58.8	58.9	58.9	58.9	59.0	59.0
15.3	59.0	59.1	59.1	59.1	59.2	59.2	59.2	59.3	59.3	59.3
15.4	59.3	59.4	59.4	59.4	59.5	59.5	59.5	59.6	59.6	59.6
15.5	59.7	59.7	59.7	59.8	59.8	59.8	59.8	59.9	59.9	59.9
15.6	60.0	60.0	60.0	60.1	60.1	60.1	60.2	60.2	60.2	60.3
15.7	60.3	60.3	60.3	60.4	60.4	60.4	60.5	60.5	60.5	60.6
15.8	60.6	60.6	60.7	60.7	60.7	60.7	60.8	60.8	60.8	60.9
15.9	60.9	60.9	61.0	61.0	61.0	61.1	61.1	61.1	61.1	61.2

TABLE 5. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR CHANGES IN TEMPERATURE (°C), V_t - Continued

T	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
16.0	61.2	61.2	61.3	61.3	61.3	61.4	61.4	61.4	61.5	61.5
16.1	61.5	61.5	61.6	61.6	61.6	61.7	61.7	61.7	61.8	61.8
16.2	61.8	61.9	61.9	61.9	61.9	62.0	62.0	62.0	62.1	62.1
16.3	62.1	62.2	62.2	62.2	62.3	62.3	62.3	62.3	62.4	62.4
16.4	62.4	62.5	62.5	62.5	62.6	62.6	62.6	62.6	62.7	62.7
16.5	62.7	62.8	62.8	62.8	62.9	62.9	62.9	62.9	63.0	63.0
16.6	63.0	63.1	63.1	63.1	63.2	63.2	63.2	63.3	63.3	63.3
16.7	63.3	63.4	63.4	63.4	63.5	63.5	63.5	63.6	63.6	63.6
16.8	63.6	63.7	63.7	63.7	63.8	63.8	63.8	63.9	63.9	63.9
16.9	63.9	64.0	64.0	64.0	64.1	64.1	64.1	64.2	64.2	64.2
17.0	64.2	64.3	64.3	64.3	64.4	64.4	64.4	64.5	64.5	64.5
17.1	64.5	64.6	64.6	64.6	64.7	64.7	64.7	64.8	64.8	64.8
17.2	64.8	64.9	64.9	64.9	65.0	65.0	65.0	65.0	65.1	65.1
17.3	65.1	65.2	65.2	65.2	65.3	65.3	65.3	65.3	65.4	65.4
17.4	65.4	65.5	65.5	65.5	65.6	65.6	65.6	65.6	65.7	65.7
17.5	65.7	65.8	65.8	65.8	65.8	65.9	65.9	65.9	66.0	66.0
17.6	66.0	66.1	66.1	66.1	66.1	66.2	66.2	66.2	66.3	66.3
17.7	66.3	66.3	66.4	66.4	66.4	66.5	66.5	66.5	66.5	66.6
17.8	66.6	66.6	66.7	66.7	66.7	66.8	66.8	66.8	66.8	66.9
17.9	66.9	66.9	67.0	67.0	67.0	67.0	67.1	67.1	67.1	67.2
18.0	67.2	67.2	67.2	67.3	67.3	67.3	67.4	67.4	67.4	67.4
18.1	67.5	67.5	67.5	67.6	67.6	67.6	67.7	67.7	67.7	67.7
18.2	67.8	67.8	67.8	67.9	67.9	67.9	67.9	68.0	68.0	68.0
18.3	68.1	68.1	68.1	68.1	68.2	68.2	68.2	68.3	68.3	68.3
18.4	68.3	68.4	68.4	68.4	68.5	68.5	68.5	68.5	68.6	68.6
18.5	68.6	68.7	68.7	68.7	68.7	68.8	68.8	68.8	68.9	68.9
18.6	68.9	68.9	69.0	69.0	69.0	69.1	69.1	69.1	69.1	69.2
18.7	69.2	69.2	69.3	69.3	69.3	69.3	69.4	69.4	69.4	69.5
18.8	69.5	69.5	69.5	69.6	69.6	69.6	69.7	69.7	69.7	69.7
18.9	69.8	69.8	69.8	69.9	69.9	69.9	69.9	70.0	70.0	70.0
19.0	70.0	70.1	70.1	70.1	70.2	70.2	70.2	70.2	70.3	70.3
19.1	70.3	70.4	70.4	70.4	70.4	70.5	70.5	70.5	70.6	70.6
19.2	70.6	70.6	70.7	70.7	70.7	70.7	70.8	70.8	70.8	70.9
19.3	70.9	70.9	70.9	71.0	71.0	71.0	71.1	71.1	71.1	71.1
19.4	71.2	71.2	71.2	71.3	71.3	71.3	71.3	71.4	71.4	71.4
19.5	71.4	71.5	71.5	71.5	71.6	71.6	71.6	71.6	71.7	71.7
19.6	71.7	71.8	71.8	71.8	71.8	71.9	71.9	71.9	71.9	72.0
19.7	72.0	72.0	72.1	72.1	72.1	72.1	72.2	72.2	72.2	72.2
19.8	72.3	72.3	72.3	72.4	72.4	72.4	72.4	72.5	72.5	72.5
19.9	72.5	72.6	72.6	72.6	72.7	72.7	72.7	72.7	72.8	72.8
20.0	72.8	72.9	72.9	72.9	72.9	73.0	73.0	73.0	73.0	73.1
20.1	73.1	73.1	73.2	73.2	73.2	73.2	73.3	73.3	73.3	73.3
20.2	73.4	73.4	73.4	73.4	73.5	73.5	73.5	73.6	73.6	73.6
20.3	73.6	73.7	73.7	73.7	73.7	73.8	73.8	73.8	73.9	73.9
20.4	73.9	73.9	74.0	74.0	74.0	74.0	74.1	74.1	74.1	74.2
20.5	74.2	74.2	74.2	74.3	74.3	74.3	74.3	74.4	74.4	74.4

20.6	74.4	74.5	74.5	74.5	74.6	74.6	74.6	74.6	74.7	74.7
20.7	74.7	74.7	74.8	74.8	74.8	74.9	74.9	74.9	74.9	75.0
20.8	75.0	75.0	75.0	75.1	75.1	75.1	75.1	75.2	75.2	75.2
20.9	75.3	75.3	75.3	75.3	75.4	75.4	75.4	75.4	75.5	75.5
21.0	75.5	75.5	75.6	75.6	75.6	75.6	75.7	75.7	75.7	75.8
21.1	75.8	75.8	75.8	75.9	75.9	75.9	75.9	76.0	76.0	76.0
21.2	76.0	76.1	76.1	76.1	76.2	76.2	76.2	76.2	76.3	76.3
21.3	76.3	76.3	76.4	76.4	76.4	76.4	76.5	76.5	76.5	76.5
21.4	76.6	76.6	76.6	76.6	76.7	76.7	76.7	76.8	76.8	76.8
21.5	76.8	76.9	76.9	76.9	76.9	77.0	77.0	77.0	77.0	77.1
21.6	77.1	77.1	77.1	77.2	77.2	77.2	77.3	77.3	77.3	77.3
21.7	77.4	77.4	77.4	77.4	77.5	77.5	77.5	77.5	77.6	77.6
21.8	77.6	77.6	77.7	77.7	77.7	77.7	77.8	77.8	77.8	77.8
21.9	77.9	77.9	77.9	77.9	78.0	78.0	78.0	78.1	78.1	78.1
22.0	78.1	78.2	78.2	78.2	78.2	78.3	78.3	78.3	78.3	78.4
22.1	78.4	78.4	78.4	78.5	78.5	78.5	78.5	78.6	78.6	78.6
22.2	78.6	78.7	78.7	78.7	78.7	78.8	78.8	78.8	78.8	78.9
22.3	78.9	78.9	78.9	79.0	79.0	79.0	79.1	79.1	79.1	79.1
22.4	79.2	79.2	79.2	79.2	79.3	79.3	79.3	79.3	79.4	79.4
22.5	79.4	79.4	79.5	79.5	79.5	79.5	79.6	79.6	79.6	79.6
22.6	79.7	79.7	79.7	79.7	79.8	79.8	79.8	79.8	79.9	79.9
22.7	79.9	79.9	80.0	80.0	80.0	80.0	80.1	80.1	80.1	80.1
22.8	80.2	80.2	80.2	80.2	80.3	80.3	80.3	80.3	80.4	80.4
22.9	80.4	80.4	80.5	80.5	80.5	80.5	80.6	80.6	80.6	80.6
23.0	80.7	80.7	80.7	80.7	80.8	80.8	80.8	80.8	80.9	80.9
23.1	80.9	80.9	81.0	81.0	81.0	81.0	81.1	81.1	81.1	81.1
23.2	81.2	81.2	81.2	81.2	81.3	81.3	81.3	81.3	81.4	81.4
23.3	81.4	81.4	81.5	81.5	81.5	81.5	81.6	81.6	81.6	81.6
23.4	81.7	81.7	81.7	81.7	81.8	81.8	81.8	81.8	81.9	81.9
23.5	81.9	81.9	82.0	82.0	82.0	82.0	82.1	82.1	82.1	82.1
23.6	82.2	82.2	82.2	82.2	82.3	82.3	82.3	82.3	82.3	82.4
23.7	82.4	82.4	82.4	82.5	82.5	82.5	82.5	82.6	82.6	82.6
23.8	82.6	82.7	82.7	82.7	82.7	82.8	82.8	82.8	82.8	82.9
23.9	82.9	82.9	82.9	83.0	83.0	83.0	83.0	83.1	83.1	83.1
24.0	83.1	83.2	83.2	83.2	83.2	83.2	83.3	83.3	83.3	83.3
24.1	83.4	83.4	83.4	83.4	83.5	83.5	83.5	83.5	83.6	83.6
24.2	83.6	83.6	83.7	83.7	83.7	83.7	83.8	83.8	83.8	83.8
24.3	83.9	83.9	83.9	83.9	83.9	84.0	84.0	84.0	84.0	84.1
24.4	84.1	84.1	84.1	84.2	84.2	84.2	84.2	84.3	84.3	84.3
24.5	84.3	84.4	84.4	84.4	84.4	84.5	84.5	84.5	84.5	84.5
24.6	84.6	84.6	84.6	84.6	84.7	84.7	84.7	84.7	84.8	84.8
24.7	84.8	84.8	84.9	84.9	84.9	84.9	85.0	85.0	85.0	85.0
24.8	85.0	85.1	85.1	85.1	85.1	85.2	85.2	85.2	85.2	85.3
24.9	85.3	85.3	85.3	85.4	85.4	85.4	85.4	85.4	85.5	85.5
25.0	85.5	85.5	85.6	85.6	85.6	85.6	85.7	85.7	85.7	85.7
25.1	85.8	85.8	85.8	85.8	85.8	85.9	85.9	85.9	85.9	86.0
25.2	86.0	86.0	86.0	86.1	86.1	86.1	86.1	86.2	86.2	86.2
25.3	86.2	86.2	86.3	86.3	86.3	86.3	86.4	86.4	86.4	86.4
25.4	86.5	86.5	86.5	86.5	86.5	86.6	86.6	86.6	86.6	86.7
25.5	86.7	86.7	86.7	86.8	86.8	86.8	86.8	86.9	86.9	86.9

TABLE 5. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR CHANGES IN TEMPERATURE (°C), V_t - Continued

T	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
25.6	86.9	86.9	87.0	87.0	87.0	87.0	87.1	87.1	87.1	87.1
25.7	87.2	87.2	87.2	87.2	87.2	87.3	87.3	87.3	87.3	87.4
25.8	87.4	87.4	87.4	87.5	87.5	87.5	87.5	87.5	87.6	87.6
25.9	87.6	87.6	87.7	87.7	87.7	87.7	87.8	87.8	87.8	87.8
26.0	87.8	87.9	87.9	87.9	87.9	88.0	88.0	88.0	88.0	88.0
26.1	88.1	88.1	88.1	88.1	88.2	88.2	88.2	88.2	88.3	88.3
26.2	88.3	88.3	88.3	88.4	88.4	88.4	88.4	88.5	88.5	88.5
26.3	88.5	88.5	88.6	88.6	88.6	88.6	88.7	88.7	88.7	88.7
26.4	88.8	88.8	88.8	88.8	88.8	88.9	88.9	88.9	88.9	89.0
26.5	89.0	89.0	89.0	89.0	89.1	89.1	89.1	89.1	89.2	89.2
26.6	89.2	89.2	89.2	89.3	89.3	89.3	89.3	89.4	89.4	89.4
26.7	89.4	89.5	89.5	89.5	89.5	89.5	89.6	89.6	89.6	89.6
26.8	89.7	89.7	89.7	89.7	89.7	89.8	89.8	89.8	89.8	89.9
26.9	89.9	89.9	89.9	89.9	90.0	90.0	90.0	90.0	90.1	90.1
27.0	90.1	90.1	90.1	90.2	90.2	90.2	90.2	90.3	90.3	90.3
27.1	90.3	90.3	90.4	90.4	90.4	90.4	90.5	90.5	90.5	90.5
27.2	90.5	90.6	90.6	90.6	90.6	90.7	90.7	90.7	90.7	90.7
27.3	90.8	90.8	90.8	90.8	90.9	90.9	90.9	90.9	90.9	91.0
27.4	91.0	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.2	91.2
27.5	91.2	91.2	91.2	91.3	91.3	91.3	91.3	91.4	91.4	91.4
27.6	91.4	91.4	91.5	91.5	91.5	91.5	91.6	91.6	91.6	91.6
27.7	91.6	91.7	91.7	91.7	91.7	91.8	91.8	91.8	91.8	91.8
27.8	91.9	91.9	91.9	91.9	91.9	92.0	92.0	92.0	92.0	92.1
27.9	92.1	92.1	92.1	92.1	92.2	92.2	92.2	92.2	92.3	92.3
28.0	92.3	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.5	92.5
28.1	92.5	92.5	92.6	92.6	92.6	92.6	92.6	92.7	92.7	92.7
28.2	92.7	92.8	92.8	92.8	92.8	92.8	92.9	92.9	92.9	92.9
28.3	92.9	93.0	93.0	93.0	93.0	93.1	93.1	93.1	93.1	93.1
28.4	93.2	93.2	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.4
28.5	93.4	93.4	93.4	93.4	93.5	93.5	93.5	93.5	93.5	93.6
28.6	93.6	93.6	93.6	93.7	93.7	93.7	93.7	93.7	93.8	93.8
28.7	93.8	93.8	93.8	93.9	93.9	93.9	93.9	93.9	94.0	94.0
28.8	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.2	94.2	94.2
28.9	94.2	94.2	94.3	94.3	94.3	94.3	94.4	94.4	94.4	94.4
29.0	94.4	94.5	94.5	94.5	94.5	94.5	94.6	94.6	94.6	94.6
29.1	94.6	94.7	94.7	94.7	94.7	94.8	94.8	94.8	94.8	94.8
29.2	94.9	94.9	94.9	94.9	94.9	95.0	95.0	95.0	95.0	95.0
29.3	95.1	95.1	95.1	95.1	95.1	95.2	95.2	95.2	95.2	95.3
29.4	95.3	95.3	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.5
29.5	95.5	95.5	95.5	95.5	95.6	95.6	95.6	95.6	95.7	95.7
29.6	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.9	95.9
29.7	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.1	96.1
29.8	96.1	96.1	96.1	96.2	96.2	96.2	96.2	96.3	96.3	96.3
29.9	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.5	96.5	96.5
30.0	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.7	96.7	96.7

30.1	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.9	96.9	96.9
30.2	96.9	97.0	97.0	97.0	97.0	97.0	97.1	97.1	97.1	97.1
30.3	97.1	97.2	97.2	97.2	97.2	97.2	97.3	97.3	97.3	97.3
30.4	97.3	97.4	97.4	97.4	97.4	97.4	97.5	97.5	97.5	97.5
30.5	97.5	97.6	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.7
30.6	97.7	97.8	97.8	97.8	97.8	97.8	97.9	97.9	97.9	97.9
30.7	97.9	98.0	98.0	98.0	98.0	98.1	98.1	98.1	98.1	98.1
30.8	98.2	98.2	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3
30.9	98.4	98.4	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5
31.0	98.6	98.6	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7
31.1	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9
31.2	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1
31.3	99.2	99.2	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3
31.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.5
31.5	99.6	99.6	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7
31.6	99.8	99.8	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9
31.7	100.0	100.0	100.0	100.0	100.0	100.1	100.1	100.1	100.1	100.1
31.8	100.2	100.2	100.2	100.2	100.2	100.2	100.3	100.3	100.3	100.3
31.9	100.3	100.4	100.4	100.4	100.4	100.4	100.5	100.5	100.5	100.5
32.0	100.5	100.6	100.6	100.6	100.6	100.6	100.7	100.7	100.7	100.7
32.1	100.7	100.8	100.8	100.8	100.8	100.8	100.9	100.9	100.9	100.9
32.2	100.9	101.0	101.0	101.0	101.0	101.0	101.1	101.1	101.1	101.1
32.3	101.1	101.2	101.2	101.2	101.2	101.2	101.3	101.3	101.3	101.3
32.4	101.3	101.3	101.4	101.4	101.4	101.4	101.4	101.5	101.5	101.5
32.5	101.5	101.5	101.6	101.6	101.6	101.6	101.6	101.7	101.7	101.7
32.6	101.7	101.7	101.8	101.8	101.8	101.8	101.8	101.9	101.9	101.9
32.7	101.9	101.9	102.0	102.0	102.0	102.0	102.0	102.0	102.1	102.1
32.8	102.1	102.1	102.1	102.2	102.2	102.2	102.2	102.2	102.3	102.3
32.9	102.3	102.3	102.3	102.4	102.4	102.4	102.4	102.4	102.5	102.5
33.0	102.5	102.5	102.5	102.6	102.6	102.6	102.6	102.6	102.6	102.7
33.1	102.7	102.7	102.7	102.7	102.8	102.8	102.8	102.8	102.8	102.9
33.2	102.9	102.9	102.9	102.9	103.0	103.0	103.0	103.0	103.0	103.1
33.3	103.1	103.1	103.1	103.1	103.1	103.2	103.2	103.2	103.2	103.2
33.4	103.3	103.3	103.3	103.3	103.3	103.4	103.4	103.4	103.4	103.4
33.5	103.5	103.5	103.5	103.5	103.5	103.5	103.6	103.6	103.6	103.6
33.6	103.6	103.7	103.7	103.7	103.7	103.7	103.8	103.8	103.8	103.8
33.7	103.8	103.9	103.9	103.9	103.9	103.9	104.0	104.0	104.0	104.0
33.8	104.0	104.0	104.1	104.1	104.1	104.1	104.1	104.2	104.2	104.2
33.9	104.2	104.2	104.3	104.3	104.3	104.3	104.3	104.3	104.4	104.4
34.0	104.4	104.4	104.4	104.5	104.5	104.5	104.5	104.5	104.6	104.6
34.1	104.6	104.6	104.6	104.7	104.7	104.7	104.7	104.7	104.7	104.8
34.2	104.8	104.8	104.8	104.8	104.9	104.9	104.9	104.9	104.9	105.0
34.3	105.0	105.0	105.0	105.0	105.0	105.1	105.1	105.1	105.1	105.1
34.4	105.2	105.2	105.2	105.2	105.2	105.3	105.3	105.3	105.3	105.3
34.5	105.4	105.4	105.4	105.4	105.4	105.4	105.5	105.5	105.5	105.5
34.6	105.5	105.6	105.6	105.6	105.6	105.6	105.7	105.7	105.7	105.7
34.7	105.7	105.7	105.8	105.8	105.8	105.8	105.8	105.9	105.9	105.9
34.8	105.9	105.9	106.0	106.0	106.0	106.0	106.0	106.0	106.1	106.1
34.9	106.1	106.1	106.1	106.2	106.2	106.2	106.2	106.2	106.3	106.3

TABLE 6. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR SIMULTANEOUS CHANGES IN SALINITY, TEMPERATURE, AND PRESSURE, V_{stp} — 0 METERS (1.03 kg/cm^2)

‰ \ °C	-4	-2	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
0.0	-1.6	-0.8	-0.0	0.8	1.6	2.4	3.1	3.9	4.7	5.5	6.3	7.1	7.9	8.6	9.4	10.2	11.0	11.8	12.6	13.4	14.1
0.5	-1.6	-0.8	-0.0	0.8	1.5	2.3	3.1	3.9	4.6	5.4	6.2	7.0	7.7	8.5	9.3	10.1	10.8	11.6	12.4	13.2	13.9
1.0	-1.5	-0.8	-0.0	0.8	1.5	2.3	3.1	3.8	4.6	5.3	6.1	6.9	7.6	8.4	9.2	9.9	10.7	11.4	12.2	13.0	13.7
1.5	-1.5	-0.8	-0.0	0.8	1.5	2.3	3.0	3.8	4.5	5.3	6.0	6.8	7.5	8.3	9.0	9.8	10.5	11.3	12.0	12.8	13.5
2.0	-1.5	-0.7	-0.0	0.7	1.5	2.2	3.0	3.7	4.4	5.2	5.9	6.7	7.4	8.1	8.9	9.6	10.4	11.1	11.8	12.6	13.3
2.5	-1.5	-0.7	-0.0	0.7	1.5	2.2	2.9	3.6	4.4	5.1	5.8	6.6	7.3	8.0	8.8	9.5	10.2	10.9	11.7	12.4	13.1
3.0	-1.4	-0.7	-0.0	0.7	1.4	2.2	2.9	3.6	4.3	5.0	5.7	6.5	7.2	7.9	8.6	9.3	10.1	10.8	11.5	12.2	12.9
3.5	-1.4	-0.7	-0.0	0.7	1.4	2.1	2.8	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5	9.2	9.9	10.6	11.3	12.0	12.7
4.0	-1.4	-0.7	-0.0	0.7	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7.0	7.7	8.3	9.0	9.7	10.4	11.1	11.8	12.5
4.5	-1.4	-0.7	-0.0	0.7	1.4	2.1	2.7	3.4	4.1	4.8	5.5	6.2	6.8	7.5	8.2	8.9	9.6	10.3	11.0	11.6	12.3
5.0	-1.4	-0.7	-0.0	0.7	1.3	2.0	2.7	3.4	4.0	4.7	5.4	6.1	6.7	7.4	8.1	8.8	9.4	10.1	10.8	11.4	12.1
5.5	-1.3	-0.7	-0.0	0.7	1.3	2.0	2.6	3.3	4.0	4.6	5.3	6.0	6.6	7.3	7.9	8.6	9.3	9.9	10.6	11.3	11.9
6.0	-1.3	-0.7	-0.0	0.6	1.3	2.0	2.6	3.3	3.9	4.6	5.2	5.9	6.5	7.2	7.8	8.5	9.1	9.8	10.4	11.1	11.7
6.5	-1.3	-0.6	-0.0	0.6	1.3	1.9	2.6	3.2	3.8	4.5	5.1	5.8	6.4	7.0	7.7	8.3	9.0	9.6	10.2	10.9	11.5
7.0	-1.3	-0.6	-0.0	0.6	1.3	1.9	2.5	3.1	3.8	4.4	5.0	5.7	6.3	6.9	7.5	8.2	8.8	9.4	10.1	10.7	11.3
7.5	-1.2	-0.6	-0.0	0.6	1.2	1.9	2.5	3.1	3.7	4.3	4.9	5.6	6.2	6.8	7.4	8.0	8.6	9.3	9.9	10.5	11.1
8.0	-1.2	-0.6	-0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.5	6.1	6.7	7.3	7.9	8.5	9.1	9.7	10.3	10.9
8.5	-1.2	-0.6	-0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	5.9	6.5	7.1	7.7	8.3	8.9	9.5	10.1	10.7
9.0	-1.2	-0.6	-0.0	0.6	1.2	1.8	2.3	2.9	3.5	4.1	4.7	5.3	5.8	6.4	7.0	7.6	8.2	8.8	9.3	9.9	10.5
9.5	-1.1	-0.6	-0.0	0.6	1.1	1.7	2.3	2.9	3.4	4.0	4.6	5.2	5.7	6.3	6.9	7.4	8.0	8.6	9.2	9.7	10.3
10.0	-1.1	-0.6	-0.0	0.6	1.1	1.7	2.2	2.8	3.4	3.9	4.5	5.1	5.6	6.2	6.7	7.3	7.9	8.4	9.0	9.5	10.1
10.5	-1.1	-0.6	-0.0	0.5	1.1	1.6	2.2	2.7	3.3	3.8	4.4	4.9	5.5	6.0	6.6	7.1	7.7	8.2	8.8	9.3	9.9
11.0	-1.1	-0.5	-0.0	0.5	1.1	1.6	2.2	2.7	3.2	3.8	4.3	4.8	5.4	5.9	6.5	7.0	7.5	8.1	8.6	9.2	9.7
11.5	-1.1	-0.5	-0.0	0.5	1.1	1.6	2.1	2.6	3.2	3.7	4.2	4.7	5.3	5.8	6.3	6.9	7.4	7.9	8.4	9.0	9.5
12.0	-1.0	-0.5	-0.0	0.5	1.0	1.5	2.1	2.6	3.1	3.6	4.1	4.6	5.2	5.7	6.2	6.7	7.2	7.7	8.3	8.8	9.3
12.5	-1.0	-0.5	-0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6	9.1
13.0	-1.0	-0.5	-0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.4	4.9	5.4	5.9	6.4	6.9	7.4	7.9	8.4	8.9
13.5	-1.0	-0.5	-0.0	0.5	1.0	1.4	1.9	2.4	2.9	3.4	3.9	4.3	4.8	5.3	5.8	6.3	6.8	7.2	7.7	8.2	8.7
14.0	-0.9	-0.5	-0.0	0.5	0.9	1.4	1.9	2.4	2.8	3.3	3.8	4.2	4.7	5.2	5.7	6.1	6.6	7.1	7.5	8.0	8.5
14.5	-0.9	-0.5	-0.0	0.5	0.9	1.4	1.8	2.3	2.8	3.2	3.7	4.1	4.6	5.1	5.5	6.0	6.4	6.9	7.4	7.8	8.3
15.0	-0.9	-0.5	-0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1	3.6	4.0	4.5	4.9	5.4	5.8	6.3	6.7	7.2	7.6	8.1
15.5	-0.9	-0.4	-0.0	0.4	0.9	1.3	1.8	2.2	2.6	3.1	3.5	3.9	4.4	4.8	5.3	5.7	6.1	6.6	7.0	7.4	7.9
16.0	-0.9	-0.4	-0.0	0.4	0.9	1.3	1.7	2.1	2.6	3.0	3.4	3.8	4.3	4.7	5.1	5.5	6.0	6.4	6.8	7.2	7.7
16.5	-0.8	-0.4	-0.0	0.4	0.8	1.2	1.7	2.1	2.5	2.9	3.3	3.7	4.2	4.6	5.0	5.4	5.8	6.2	6.6	7.1	7.5
17.0	-0.8	-0.4	-0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0	4.4	4.8	5.3	5.7	6.1	6.5	6.9	7.3
17.5	-0.8	-0.4	-0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.7	3.1	3.5	3.9	4.3	4.7	5.1	5.5	5.9	6.3	6.7	7.1
18.0	-0.8	-0.4	-0.0	0.4	0.8	1.1	1.5	1.9	2.3	2.7	3.1	3.4	3.8	4.2	4.6	5.0	5.3	5.7	6.1	6.5	6.9
18.5	-0.7	-0.4	-0.0	0.4	0.7	1.1	1.5	1.9	2.2	2.6	3.0	3.3	3.7	4.1	4.4	4.8	5.2	5.6	5.9	6.3	6.7
19.0	-0.7	-0.4	-0.0	0.4	0.7	1.1	1.4	1.8	2.2	2.5	2.9	3.2	3.6	4.0	4.3	4.7	5.0	5.4	5.7	6.1	6.5
19.5	-0.7	-0.3	-0.0	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.8	3.1	3.5	3.8	4.2	4.5	4.9	5.2	5.6	5.9	6.3
20.0	-0.7	-0.3	-0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.4	2.7	3.0	3.4	3.7	4.0	4.4	4.7	5.1	5.4	5.7	6.1
20.5	-0.7	-0.3	-0.0	0.3	0.7	1.0	1.3	1.6	2.0	2.3	2.6	2.9	3.3	3.6	3.9	4.2	4.6	4.9	5.2	5.5	5.9
21.0	-0.6	-0.3	-0.0	0.3	0.6	0.9	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.5	3.8	4.1	4.4	4.7	5.0	5.3	5.7
21.5	-0.6	-0.3	-0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.2	5.5

22.0	-0.6	-0.3	-0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.0	2.3	2.6	2.9	3.2	3.5	3.8	4.1	4.4	4.7	5.0	5.3
22.5	-0.6	-0.3	-0.0	0.3	0.6	0.8	1.1	1.4	1.7	2.0	2.2	2.5	2.8	3.1	3.4	3.6	3.9	4.2	4.5	4.8	5.1
23.0	-0.5	-0.3	-0.0	0.3	0.5	0.8	1.1	1.3	1.6	1.9	2.2	2.4	2.7	3.0	3.2	3.5	3.8	4.0	4.3	4.6	4.8
23.5	-0.5	-0.3	-0.0	0.3	0.5	0.8	1.0	1.3	1.5	1.8	2.1	2.3	2.6	2.8	3.1	3.4	3.6	3.9	4.1	4.4	4.6
24.0	-0.5	-0.2	-0.0	0.2	0.5	0.7	1.0	1.2	1.5	1.7	2.0	2.2	2.5	2.7	3.0	3.2	3.5	3.7	4.0	4.2	4.4
24.5	-0.5	-0.2	-0.0	0.2	0.5	0.7	0.9	1.2	1.4	1.6	1.9	2.1	2.4	2.6	2.8	3.1	3.3	3.5	3.8	4.0	4.2
25.0	-0.4	-0.2	-0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.2	2.5	2.7	2.9	3.1	3.4	3.6	3.8	4.0
25.5	-0.4	-0.2	-0.0	0.2	0.4	0.6	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.6	2.8	3.0	3.2	3.4	3.6	3.8
26.0	-0.4	-0.2	-0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6
26.5	-0.4	-0.2	-0.0	0.2	0.4	0.6	0.8	1.0	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.2	3.4
27.0	-0.4	-0.2	-0.0	0.2	0.4	0.5	0.7	0.9	1.1	1.3	1.4	1.6	1.8	2.0	2.2	2.3	2.5	2.7	2.9	3.1	3.2
27.5	-0.3	-0.2	-0.0	0.2	0.3	0.5	0.7	0.8	1.0	1.2	1.3	1.5	1.7	1.9	2.0	2.2	2.4	2.5	2.7	2.9	3.0
28.0	-0.3	-0.2	-0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.3	1.4	1.6	1.7	1.9	2.0	2.2	2.4	2.5	2.7	2.8
28.5	-0.3	-0.1	-0.0	0.1	0.3	0.4	0.6	0.7	0.9	1.0	1.2	1.3	1.5	1.6	1.8	1.9	2.0	2.2	2.3	2.5	2.6
29.0	-0.3	-0.1	-0.0	0.1	0.3	0.4	0.5	0.7	0.8	0.9	1.1	1.2	1.3	1.5	1.6	1.8	1.9	2.0	2.2	2.3	2.4
29.5	-0.2	-0.1	-0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.9	2.0	2.1	2.2
30.0	-0.2	-0.1	-0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.7	1.8	1.9	2.0
30.5	-0.2	-0.1	-0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8
31.0	-0.2	-0.1	-0.0	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6
31.5	-0.2	-0.1	-0.0	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.2	1.3	1.3	1.4
32.0	-0.1	-0.1	-0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	0.9	1.0	1.1	1.1	1.2
32.5	-0.1	-0.1	-0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.0
33.0	-0.1	-0.0	-0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.8
33.5	-0.1	-0.0	-0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6
34.0	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4
34.5	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
35.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35.5	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2
36.0	0.0	0.0	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4
36.5	0.1	0.0	0.0	-0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.6	-0.6
37.0	0.1	0.0	0.0	-0.0	-0.1	-0.1	-0.2	-0.2	-0.3	-0.3	-0.4	-0.4	-0.4	-0.5	-0.5	-0.6	-0.6	-0.7	-0.7	-0.8	-0.8
37.5	0.1	0.1	0.0	-0.1	-0.1	-0.2	-0.2	-0.3	-0.3	-0.4	-0.4	-0.5	-0.6	-0.6	-0.7	-0.7	-0.8	-0.8	-0.9	-0.9	-1.0
38.0	0.1	0.1	0.0	-0.1	-0.1	-0.2	-0.3	-0.3	-0.4	-0.5	-0.5	-0.6	-0.7	-0.7	-0.8	-0.9	-0.9	-1.0	-1.1	-1.1	-1.2
38.5	0.2	0.1	0.0	-0.1	-0.2	-0.2	-0.3	-0.4	-0.5	-0.6	-0.6	-0.7	-0.8	-0.9	-0.9	-1.0	-1.1	-1.2	-1.3	-1.3	-1.4
39.0	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.5	-0.6	-0.7	-0.8	-0.9	-1.0	-1.1	-1.2	-1.3	-1.3	-1.4	-1.5	-1.6
39.5	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6	-0.7	-0.8	-0.9	-1.0	-1.1	-1.2	-1.3	-1.4	-1.5	-1.6	-1.7	-1.8
40.0	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.5	-0.6	-0.7	-0.8	-0.9	-1.0	-1.1	-1.2	-1.3	-1.5	-1.6	-1.7	-1.8	-1.9	-2.0
40.5	0.2	0.1	0.0	-0.1	-0.2	-0.4	-0.5	-0.6	-0.7	-0.9	-1.0	-1.1	-1.2	-1.4	-1.5	-1.6	-1.7	-1.8	-2.0	-2.1	-2.2
41.0	0.3	0.1	0.0	-0.1	-0.3	-0.4	-0.5	-0.7	-0.8	-0.9	-1.1	-1.2	-1.3	-1.5	-1.6	-1.7	-1.9	-2.0	-2.2	-2.3	-2.4
41.5	0.3	0.1	0.0	-0.1	-0.3	-0.4	-0.6	-0.7	-0.9	-1.0	-1.2	-1.3	-1.5	-1.6	-1.8	-1.9	-2.0	-2.2	-2.3	-2.5	-2.6
42.0	0.3	0.2	0.0	-0.2	-0.3	-0.5	-0.6	-0.8	-0.9	-1.1	-1.3	-1.4	-1.6	-1.7	-1.9	-2.0	-2.2	-2.4	-2.5	-2.7	-2.8

TABLE 6. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR SIMULTANEOUS CHANGES IN SALINITY, TEMPERATURE, AND PRESSURE, V_{stp} - Continued

500 METERS (52.47 kg/cm^2)

‰ \ °C	-4	-2	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
0.0	-1.7	-0.9	-0.1	0.6	1.4	2.2	3.0	3.7	4.5	5.3	6.1	6.9	7.7	8.5	9.3	10.1	10.9	11.8	12.6	13.4	14.2
0.5	-1.6	-0.9	-0.1	0.6	1.4	2.2	2.9	3.7	4.5	5.2	6.0	6.8	7.6	8.4	9.2	10.0	10.8	11.6	12.4	13.2	14.0
1.0	-1.6	-0.9	-0.1	0.6	1.4	2.1	2.9	3.6	4.4	5.2	5.9	6.7	7.5	8.3	9.0	9.8	10.6	11.4	12.2	13.0	13.8
1.5	-1.6	-0.9	-0.1	0.6	1.3	2.1	2.8	3.6	4.3	5.1	5.8	6.6	7.4	8.1	8.9	9.7	10.5	11.3	12.0	12.8	13.6
2.0	-1.6	-0.8	-0.1	0.6	1.3	2.1	2.8	3.5	4.3	5.0	5.8	6.5	7.3	8.0	8.8	9.5	10.3	11.1	11.9	12.7	13.4
2.5	-1.5	-0.8	-0.1	0.6	1.3	2.0	2.7	3.5	4.2	4.9	5.7	6.4	7.1	7.9	8.6	9.4	10.2	10.9	11.7	12.5	13.2
3.0	-1.5	-0.8	-0.1	0.6	1.3	2.0	2.7	3.4	4.1	4.9	5.6	6.3	7.0	7.8	8.5	9.3	10.0	10.8	11.5	12.3	13.0
3.5	-1.5	-0.8	-0.1	0.6	1.3	2.0	2.7	3.4	4.1	4.8	5.5	6.2	6.9	7.6	8.4	9.1	9.8	10.6	11.3	12.1	12.8
4.0	-1.5	-0.8	-0.1	0.6	1.2	1.9	2.6	3.3	4.0	4.7	5.4	6.1	6.8	7.5	8.2	9.0	9.7	10.4	11.2	11.9	12.6
4.5	-1.4	-0.8	-0.1	0.6	1.2	1.9	2.6	3.3	3.9	4.6	5.3	6.0	6.7	7.4	8.1	8.8	9.5	10.3	11.0	11.7	12.4
5.0	-1.4	-0.8	-0.1	0.5	1.2	1.9	2.5	3.2	3.9	4.5	5.2	5.9	6.6	7.3	8.0	8.7	9.4	10.1	10.8	11.5	12.2
5.5	-1.4	-0.7	-0.1	0.5	1.2	1.8	2.5	3.1	3.8	4.5	5.1	5.8	6.5	7.2	7.8	8.5	9.2	9.9	10.6	11.3	12.0
6.0	-1.4	-0.7	-0.1	0.5	1.2	1.8	2.4	3.1	3.7	4.4	5.0	5.7	6.4	7.0	7.7	8.4	9.1	9.8	10.4	11.1	11.8
6.5	-1.3	-0.7	-0.1	0.5	1.1	1.8	2.4	3.0	3.7	4.3	5.0	5.6	6.3	6.9	7.6	8.2	8.9	9.6	10.3	11.0	11.6
7.0	-1.3	-0.7	-0.1	0.5	1.1	1.7	2.4	3.0	3.6	4.2	4.9	5.5	6.2	6.8	7.4	8.1	8.8	9.4	10.1	10.8	11.4
7.5	-1.3	-0.7	-0.1	0.5	1.1	1.7	2.3	2.9	3.5	4.2	4.8	5.4	6.0	6.7	7.3	8.0	8.6	9.3	9.9	10.6	11.2
8.0	-1.3	-0.7	-0.1	0.5	1.1	1.7	2.3	2.9	3.5	4.1	4.7	5.3	5.9	6.6	7.2	7.8	8.5	9.1	9.7	10.4	11.0
8.5	-1.2	-0.7	-0.1	0.5	1.1	1.6	2.2	2.8	3.4	4.0	4.6	5.2	5.8	6.4	7.0	7.7	8.3	8.9	9.6	10.2	10.8
9.0	-1.2	-0.7	-0.1	0.5	1.0	1.6	2.2	2.8	3.3	3.9	4.5	5.1	5.7	6.3	6.9	7.5	8.1	8.8	9.4	10.0	10.6
9.5	-1.2	-0.6	-0.1	0.5	1.0	1.6	2.1	2.7	3.3	3.9	4.4	5.0	5.6	6.2	6.8	7.4	8.0	8.6	9.2	9.8	10.4
10.0	-1.2	-0.6	-0.1	0.5	1.0	1.5	2.1	2.7	3.2	3.8	4.3	4.9	5.5	6.1	6.7	7.2	7.8	8.4	9.0	9.6	10.2
10.5	-1.1	-0.6	-0.1	0.4	1.0	1.5	2.1	2.6	3.1	3.7	4.3	4.8	5.4	5.9	6.5	7.1	7.7	8.3	8.9	9.4	10.0
11.0	-1.1	-0.6	-0.1	0.4	1.0	1.5	2.0	2.5	3.1	3.6	4.2	4.7	5.3	5.8	6.4	7.0	7.5	8.1	8.7	9.3	9.8
11.5	-1.1	-0.6	-0.1	0.4	0.9	1.4	2.0	2.5	3.0	3.5	4.1	4.6	5.2	5.7	6.3	6.8	7.4	7.9	8.5	9.1	9.6
12.0	-1.1	-0.6	-0.1	0.4	0.9	1.4	1.9	2.4	3.0	3.5	4.0	4.5	5.0	5.6	6.1	6.7	7.2	7.8	8.3	8.9	9.4
12.5	-1.0	-0.6	-0.1	0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.4	4.9	5.5	6.0	6.5	7.1	7.6	8.1	8.7	9.2
13.0	-1.0	-0.6	-0.1	0.4	0.9	1.4	1.8	2.3	2.8	3.3	3.8	4.3	4.8	5.3	5.9	6.4	6.9	7.4	8.0	8.5	9.0
13.5	-1.0	-0.5	-0.1	0.4	0.9	1.3	1.8	2.3	2.8	3.2	3.7	4.2	4.7	5.2	5.7	6.2	6.7	7.3	7.8	8.3	8.8
14.0	-1.0	-0.5	-0.1	0.4	0.8	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.6
14.5	-0.9	-0.5	-0.1	0.4	0.8	1.3	1.7	2.2	2.6	3.1	3.6	4.0	4.5	5.0	5.5	5.9	6.4	6.9	7.4	7.9	8.4
15.0	-0.9	-0.5	-0.1	0.4	0.8	1.2	1.7	2.1	2.6	3.0	3.5	3.9	4.4	4.9	5.3	5.8	6.3	6.8	7.3	7.7	8.2
15.5	-0.9	-0.5	-0.1	0.3	0.8	1.2	1.6	2.1	2.5	2.9	3.4	3.8	4.3	4.7	5.2	5.7	6.1	6.6	7.1	7.6	8.0
16.0	-0.9	-0.5	-0.1	0.3	0.7	1.2	1.6	2.0	2.4	2.9	3.3	3.7	4.2	4.6	5.1	5.5	6.0	6.4	6.9	7.4	7.8
16.5	-0.9	-0.5	-0.1	0.3	0.7	1.1	1.5	1.9	2.4	2.8	3.2	3.6	4.1	4.5	4.9	5.4	5.8	6.3	6.7	7.2	7.6
17.0	-0.8	-0.4	-0.1	0.3	0.7	1.1	1.5	1.9	2.3	2.7	3.1	3.5	3.9	4.4	4.8	5.2	5.7	6.1	6.5	7.0	7.4
17.5	-0.8	-0.4	-0.1	0.3	0.7	1.1	1.5	1.8	2.2	2.6	3.0	3.4	3.8	4.2	4.7	5.1	5.5	5.9	6.4	6.8	7.2
18.0	-0.8	-0.4	-0.1	0.3	0.7	1.0	1.4	1.8	2.2	2.5	2.9	3.3	3.7	4.1	4.5	4.9	5.3	5.8	6.2	6.6	7.0
18.5	-0.8	-0.4	-0.1	0.3	0.6	1.0	1.4	1.7	2.1	2.5	2.8	3.2	3.6	4.0	4.4	4.8	5.2	5.6	6.0	6.4	6.8
19.0	-0.7	-0.4	-0.1	0.3	0.6	1.0	1.3	1.7	2.0	2.4	2.8	3.1	3.5	3.9	4.3	4.6	5.0	5.4	5.8	6.2	6.6
19.5	-0.7	-0.4	-0.1	0.3	0.6	0.9	1.3	1.6	2.0	2.3	2.7	3.0	3.4	3.8	4.1	4.5	4.9	5.3	5.7	6.0	6.4
20.0	-0.7	-0.4	-0.1	0.3	0.6	0.9	1.2	1.6	1.9	2.2	2.6	2.9	3.3	3.6	4.0	4.4	4.7	5.1	5.5	5.9	6.2
20.5	-0.7	-0.4	-0.1	0.3	0.6	0.9	1.2	1.5	1.8	2.2	2.5	2.8	3.2	3.5	3.9	4.2	4.6	4.9	5.3	5.7	6.0

21.0	-0.6	-0.3	-0.1	0.2	0.5	0.8	1.1	1.5	1.8	2.1	2.4	2.7	3.1	3.4	3.7	4.1	4.4	4.8	5.1	5.5	5.8
21.5	-0.6	-0.3	-0.0	0.2	0.5	0.8	1.1	1.4	1.7	2.0	2.3	2.6	2.9	3.3	3.6	3.9	4.3	4.6	4.9	5.3	5.6
22.0	-0.6	-0.3	-0.0	0.2	0.5	0.8	1.1	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.5	3.8	4.1	4.4	4.8	5.1	5.4
22.5	-0.6	-0.3	-0.0	0.2	0.5	0.7	1.0	1.3	1.6	1.9	2.1	2.4	2.7	3.0	3.3	3.6	4.0	4.3	4.6	4.9	5.2
23.0	-0.5	-0.3	-0.0	0.2	0.5	0.7	1.0	1.2	1.5	1.8	2.1	2.3	2.6	2.9	3.2	3.5	3.8	4.1	4.4	4.7	5.0
23.5	-0.5	-0.3	-0.0	0.2	0.4	0.7	0.9	1.2	1.4	1.7	2.0	2.2	2.5	2.8	3.1	3.4	3.6	3.9	4.2	4.5	4.8
24.0	-0.5	-0.3	-0.0	0.2	0.4	0.7	0.9	1.1	1.4	1.6	1.9	2.1	2.4	2.7	2.9	3.2	3.5	3.8	4.1	4.3	4.6
24.5	-0.5	-0.3	-0.0	0.2	0.4	0.6	0.8	1.1	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.1	3.3	3.6	3.9	4.2	4.4
25.0	-0.4	-0.2	-0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.5	1.7	1.9	2.2	2.4	2.7	2.9	3.2	3.4	3.7	4.0	4.2
25.5	-0.4	-0.2	-0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.1	2.3	2.5	2.8	3.0	3.3	3.5	3.8	4.0
26.0	-0.4	-0.2	-0.0	0.1	0.3	0.5	0.7	0.9	1.1	1.3	1.5	1.7	2.0	2.2	2.4	2.6	2.9	3.1	3.3	3.6	3.8
26.5	-0.4	-0.2	-0.0	0.1	0.3	0.5	0.7	0.9	1.0	1.2	1.4	1.6	1.8	2.1	2.3	2.5	2.7	2.9	3.2	3.4	3.6
27.0	-0.3	-0.2	-0.0	0.1	0.3	0.5	0.6	0.8	1.0	1.2	1.4	1.5	1.7	1.9	2.1	2.3	2.6	2.8	3.0	3.2	3.4
27.5	-0.3	-0.2	-0.0	0.1	0.3	0.4	0.6	0.8	0.9	1.1	1.3	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2
28.0	-0.3	-0.2	-0.0	0.1	0.3	0.4	0.5	0.7	0.9	1.0	1.2	1.3	1.5	1.7	1.9	2.1	2.2	2.4	2.6	2.8	3.0
28.5	-0.3	-0.1	-0.0	0.1	0.2	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.4	1.6	1.7	1.9	2.1	2.3	2.5	2.7	2.8
29.0	-0.2	-0.1	-0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.9	1.0	1.1	1.3	1.4	1.6	1.8	1.9	2.1	2.3	2.5	2.6
29.5	-0.2	-0.1	-0.0	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.2	1.3	1.5	1.6	1.8	1.9	2.1	2.3	2.4
30.0	-0.2	-0.1	-0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.5	1.6	1.8	1.9	2.1	2.2
30.5	-0.2	-0.1	-0.0	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2	1.3	1.5	1.6	1.7	1.9	2.0
31.0	-0.1	-0.1	-0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8
31.5	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.2	1.3	1.4	1.5	1.6
32.0	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4
32.5	-0.1	-0.0	-0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.2
33.0	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.0
33.5	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.8
34.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6
34.5	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4
35.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2
35.5	0.1	0.0	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.0	0.0
36.0	0.1	0.0	0.0	-0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2
36.5	0.1	0.1	0.0	-0.0	-0.1	-0.1	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
37.0	0.1	0.1	0.0	-0.1	-0.1	-0.2	-0.2	-0.3	-0.3	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6
37.5	0.2	0.1	0.0	-0.1	-0.1	-0.2	-0.3	-0.3	-0.4	-0.4	-0.5	-0.5	-0.6	-0.6	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.8
38.0	0.2	0.1	0.0	-0.1	-0.2	-0.2	-0.3	-0.4	-0.5	-0.5	-0.6	-0.6	-0.7	-0.7	-0.8	-0.8	-0.9	-0.9	-0.9	-0.9	-1.0
38.5	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.4	-0.5	-0.6	-0.7	-0.7	-0.8	-0.9	-0.9	-1.0	-1.0	-1.1	-1.1	-1.1	-1.2
39.0	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6	-0.7	-0.8	-0.8	-0.9	-1.0	-1.1	-1.1	-1.2	-1.2	-1.3	-1.3	-1.4
39.5	0.3	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.6	-0.7	-0.8	-0.8	-0.9	-1.0	-1.1	-1.2	-1.3	-1.3	-1.4	-1.4	-1.5	-1.6
40.0	0.3	0.2	0.0	-0.1	-0.2	-0.4	-0.5	-0.6	-0.7	-0.8	-0.9	-1.0	-1.1	-1.2	-1.3	-1.4	-1.5	-1.6	-1.6	-1.7	-1.8
40.5	0.3	0.2	0.0	-0.1	-0.3	-0.4	-0.5	-0.7	-0.8	-0.9	-1.0	-1.1	-1.2	-1.4	-1.5	-1.5	-1.6	-1.7	-1.8	-1.9	-2.0
41.0	0.3	0.2	0.0	-0.1	-0.3	-0.4	-0.6	-0.7	-0.9	-1.0	-1.1	-1.2	-1.4	-1.5	-1.6	-1.7	-1.8	-1.9	-2.0	-2.1	-2.2
41.5	0.4	0.2	0.0	-0.1	-0.3	-0.5	-0.6	-0.8	-0.9	-1.1	-1.2	-1.3	-1.5	-1.6	-1.7	-1.8	-1.9	-2.1	-2.2	-2.3	-2.4
42.0	0.4	0.2	0.0	-0.2	-0.3	-0.5	-0.7	-0.8	-1.0	-1.1	-1.3	-1.4	-1.6	-1.7	-1.8	-2.0	-2.1	-2.2	-2.3	-2.4	-2.6

TABLE 6. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR SIMULTANEOUS CHANGES IN SALINITY, TEMPERATURE, AND PRESSURE, V_{stp} - Continued

1000 METERS
(104.09 kg/cm^2)

‰ \ °C	-4	-2	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
0.0	-1.7	-1.0	-0.2	0.5	1.3	2.0	2.8	3.6	4.3	5.1	5.9	6.7	7.5	8.4	9.2	10.0	10.9	11.7	12.6	13.5	14.3
0.5	-1.7	-1.0	-0.2	0.5	1.2	2.0	2.7	3.5	4.3	5.1	5.8	6.6	7.4	8.2	9.0	9.9	10.7	11.6	12.4	13.3	14.1
1.0	-1.7	-0.9	-0.2	0.5	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.5	7.3	8.1	8.9	9.7	10.6	11.4	12.2	13.1	13.9
1.5	-1.6	-0.9	-0.2	0.5	1.2	1.9	2.7	3.4	4.1	4.9	5.7	6.4	7.2	8.0	8.8	9.6	10.4	11.2	12.1	12.9	13.7
2.0	-1.6	-0.9	-0.2	0.5	1.2	1.9	2.6	3.3	4.1	4.8	5.6	6.3	7.1	7.9	8.7	9.4	10.2	11.1	11.9	12.7	13.5
2.5	-1.6	-0.9	-0.2	0.5	1.2	1.9	2.6	3.3	4.0	4.8	5.5	6.2	7.0	7.8	8.5	9.3	10.1	10.9	11.7	12.5	13.3
3.0	-1.5	-0.9	-0.2	0.5	1.2	1.8	2.5	3.2	4.0	4.7	5.4	6.1	6.9	7.6	8.4	9.2	9.9	10.7	11.5	12.3	13.1
3.5	-1.5	-0.9	-0.2	0.5	1.1	1.8	2.5	3.2	3.9	4.6	5.3	6.0	6.8	7.5	8.3	9.0	9.8	10.6	11.3	12.1	13.0
4.0	-1.5	-0.9	-0.2	0.5	1.1	1.8	2.5	3.1	3.8	4.5	5.2	5.9	6.7	7.4	8.1	8.9	9.6	10.4	11.2	12.0	12.8
4.5	-1.5	-0.8	-0.2	0.4	1.1	1.8	2.4	3.1	3.8	4.4	5.1	5.8	6.6	7.3	8.0	8.7	9.5	10.2	11.0	11.8	12.6
5.0	-1.4	-0.8	-0.2	0.4	1.1	1.7	2.4	3.0	3.7	4.4	5.1	5.7	6.4	7.2	7.9	8.6	9.3	10.1	10.8	11.6	12.4
5.5	-1.4	-0.8	-0.2	0.4	1.1	1.7	2.3	3.0	3.6	4.3	5.0	5.6	6.3	7.0	7.7	8.5	9.2	9.9	10.6	11.4	12.2
6.0	-1.4	-0.8	-0.2	0.4	1.0	1.7	2.3	2.9	3.6	4.2	4.9	5.6	6.2	6.9	7.6	8.3	9.0	9.7	10.5	11.2	12.0
6.5	-1.4	-0.8	-0.2	0.4	1.0	1.6	2.2	2.9	3.5	4.1	4.8	5.5	6.1	6.8	7.5	8.2	8.9	9.6	10.3	11.0	11.8
7.0	-1.3	-0.8	-0.2	0.4	1.0	1.6	2.2	2.8	3.4	4.1	4.7	5.4	6.0	6.7	7.3	8.0	8.7	9.4	10.1	10.8	11.6
7.5	-1.3	-0.8	-0.2	0.4	1.0	1.6	2.2	2.8	3.4	4.0	4.6	5.3	5.9	6.6	7.2	7.9	8.6	9.2	9.9	10.6	11.4
8.0	-1.3	-0.7	-0.2	0.4	1.0	1.5	2.1	2.7	3.3	3.9	4.5	5.2	5.8	6.4	7.1	7.7	8.4	9.1	9.8	10.5	11.2
8.5	-1.3	-0.7	-0.2	0.4	0.9	1.5	2.1	2.7	3.3	3.8	4.5	5.1	5.7	6.3	6.9	7.6	8.3	8.9	9.6	10.3	11.0
9.0	-1.2	-0.7	-0.2	0.4	0.9	1.5	2.0	2.6	3.2	3.8	4.4	5.0	5.6	6.2	6.8	7.5	8.1	8.8	9.4	10.1	10.8
9.5	-1.2	-0.7	-0.2	0.4	0.9	1.4	2.0	2.6	3.1	3.7	4.3	4.9	5.5	6.1	6.7	7.3	7.9	8.6	9.2	9.9	10.6
10.0	-1.2	-0.7	-0.2	0.4	0.9	1.4	2.0	2.5	3.1	3.6	4.2	4.8	5.4	6.0	6.6	7.2	7.8	8.4	9.1	9.7	10.4
10.5	-1.2	-0.7	-0.2	0.3	0.9	1.4	1.9	2.5	3.0	3.5	4.1	4.7	5.2	5.8	6.4	7.0	7.6	8.3	8.9	9.5	10.2
11.0	-1.1	-0.7	-0.2	0.3	0.8	1.4	1.9	2.4	2.9	3.5	4.0	4.6	5.1	5.7	6.3	6.9	7.5	8.1	8.7	9.3	10.0
11.5	-1.1	-0.6	-0.2	0.3	0.8	1.3	1.8	2.3	2.9	3.4	3.9	4.5	5.0	5.6	6.2	6.7	7.3	7.9	8.5	9.1	9.8
12.0	-1.1	-0.6	-0.2	0.3	0.8	1.3	1.8	2.3	2.8	3.3	3.8	4.4	4.9	5.5	6.0	6.6	7.2	7.8	8.4	9.0	9.6
12.5	-1.1	-0.6	-0.1	0.3	0.8	1.3	1.7	2.2	2.7	3.2	3.8	4.3	4.8	5.4	5.9	6.5	7.0	7.6	8.2	8.8	9.4
13.0	-1.0	-0.6	-0.1	0.3	0.8	1.2	1.7	2.2	2.7	3.2	3.7	4.2	4.7	5.2	5.8	6.3	6.9	7.4	8.0	8.6	9.2
13.5	-1.0	-0.6	-0.1	0.3	0.7	1.2	1.7	2.1	2.6	3.1	3.6	4.1	4.6	5.1	5.6	6.2	6.7	7.3	7.8	8.4	9.0
14.0	-1.0	-0.6	-0.1	0.3	0.7	1.2	1.6	2.1	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.6	7.1	7.7	8.2	8.8
14.5	-1.0	-0.5	-0.1	0.3	0.7	1.1	1.6	2.0	2.5	2.9	3.4	3.9	4.4	4.9	5.4	5.9	6.4	6.9	7.5	8.0	8.6
15.0	-0.9	-0.5	-0.1	0.3	0.7	1.1	1.5	2.0	2.4	2.9	3.3	3.8	4.3	4.8	5.2	5.7	6.3	6.8	7.3	7.8	8.4
15.5	-0.9	-0.5	-0.1	0.3	0.7	1.1	1.5	1.9	2.4	2.8	3.2	3.7	4.2	4.6	5.1	5.6	6.1	6.6	7.1	7.7	8.2
16.0	-0.9	-0.5	-0.1	0.3	0.7	1.1	1.5	1.9	2.3	2.7	3.2	3.6	4.0	4.5	5.0	5.5	5.9	6.4	6.9	7.5	8.0
16.5	-0.9	-0.5	-0.1	0.3	0.6	1.0	1.4	1.8	2.2	2.6	3.1	3.5	3.9	4.4	4.8	5.3	5.8	6.3	6.8	7.3	7.8
17.0	-0.8	-0.5	-0.1	0.2	0.6	1.0	1.4	1.8	2.2	2.6	3.0	3.4	3.8	4.3	4.7	5.2	5.6	6.1	6.6	7.1	7.6
17.5	-0.8	-0.5	-0.1	0.2	0.6	1.0	1.3	1.7	2.1	2.5	2.9	3.3	3.7	4.1	4.6	5.0	5.5	5.9	6.4	6.9	7.4
18.0	-0.8	-0.4	-0.1	0.2	0.6	0.9	1.3	1.7	2.0	2.4	2.8	3.2	3.6	4.0	4.5	4.9	5.3	5.8	6.2	6.7	7.2
18.5	-0.7	-0.4	-0.1	0.2	0.6	0.9	1.2	1.6	2.0	2.3	2.7	3.1	3.5	3.9	4.3	4.7	5.2	5.6	6.1	6.5	7.0
19.0	-0.7	-0.4	-0.1	0.2	0.5	0.9	1.2	1.6	1.9	2.3	2.6	3.0	3.4	3.8	4.2	4.6	5.0	5.5	5.9	6.3	6.8
19.5	-0.7	-0.4	-0.1	0.2	0.5	0.8	1.2	1.5	1.8	2.2	2.5	2.9	3.3	3.7	4.1	4.5	4.9	5.3	5.7	6.2	6.6
20.0	-0.7	-0.4	-0.1	0.2	0.5	0.8	1.1	1.4	1.8	2.1	2.5	2.8	3.2	3.5	3.9	4.3	4.7	5.1	5.5	6.0	6.4
20.5	-0.6	-0.4	-0.1	0.2	0.5	0.8	1.1	1.4	1.7	2.0	2.4	2.7	3.1	3.4	3.8	4.2	4.6	5.0	5.4	5.8	6.2
21.0	-0.6	-0.4	-0.1	0.2	0.5	0.7	1.0	1.3	1.6	2.0	2.3	2.6	3.0	3.3	3.7	4.0	4.4	4.8	5.2	5.6	6.0
21.5	-0.6	-0.3	-0.1	0.2	0.4	0.7	1.0	1.3	1.6	1.9	2.2	2.5	2.9	3.2	3.5	3.9	4.3	4.6	5.0	5.4	5.8

22.0	-0.6	-0.3	-0.1	0.2	0.4	0.7	1.0	1.2	1.5	1.8	2.1	2.4	2.7	3.1	3.4	3.7	4.1	4.5	4.8	5.2	5.6
22.5	-0.5	-0.3	-0.1	0.2	0.4	0.7	0.9	1.2	1.5	1.7	2.0	2.3	2.6	2.9	3.3	3.6	3.9	4.3	4.7	5.0	5.4
23.0	-0.5	-0.3	-0.1	0.1	0.4	0.6	0.9	1.1	1.4	1.7	1.9	2.2	2.5	2.8	3.1	3.5	3.8	4.1	4.5	4.8	5.2
23.5	-0.5	-0.3	-0.1	0.1	0.4	0.6	0.8	1.1	1.3	1.6	1.9	2.1	2.4	2.7	3.0	3.3	3.6	4.0	4.3	4.7	5.0
24.0	-0.5	-0.3	-0.1	0.1	0.3	0.6	0.8	1.0	1.3	1.5	1.8	2.0	2.3	2.6	2.9	3.2	3.5	3.8	4.1	4.5	4.8
24.5	-0.4	-0.3	-0.1	0.1	0.3	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.2	2.5	2.7	3.0	3.3	3.6	4.0	4.3	4.6
25.0	-0.4	-0.2	-0.1	0.1	0.3	0.5	0.7	0.9	1.1	1.4	1.6	1.8	2.1	2.3	2.6	2.9	3.2	3.5	3.8	4.1	4.4
25.5	-0.4	-0.2	-0.1	0.1	0.3	0.5	0.7	0.9	1.1	1.3	1.5	1.7	2.0	2.2	2.5	2.7	3.0	3.3	3.6	3.9	4.2
26.0	-0.4	-0.2	-0.1	0.1	0.3	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.9	2.1	2.4	2.6	2.9	3.1	3.4	3.7	4.0
26.5	-0.3	-0.2	-0.1	0.1	0.2	0.4	0.6	0.8	0.9	1.1	1.3	1.5	1.8	2.0	2.2	2.5	2.7	3.0	3.3	3.5	3.8
27.0	-0.3	-0.2	-0.1	0.1	0.2	0.4	0.5	0.7	0.9	1.1	1.3	1.4	1.7	1.9	2.1	2.3	2.6	2.8	3.1	3.3	3.6
27.5	-0.3	-0.2	-0.0	0.1	0.2	0.4	0.5	0.7	0.8	1.0	1.2	1.3	1.5	1.7	2.0	2.2	2.4	2.6	2.9	3.2	3.4
28.0	-0.3	-0.2	-0.0	0.1	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.3	1.4	1.6	1.8	2.0	2.3	2.5	2.7	3.0	3.2
28.5	-0.2	-0.1	-0.0	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.8	3.0
29.0	-0.2	-0.1	-0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.4	1.6	1.8	1.9	2.2	2.4	2.6	2.8
29.5	-0.2	-0.1	-0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.3	1.4	1.6	1.8	2.0	2.2	2.4	2.6
30.0	-0.2	-0.1	-0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.3	1.5	1.6	1.8	2.0	2.2	2.4
30.5	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.2	1.3	1.5	1.7	1.8	2.0	2.2
31.0	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.3	1.5	1.7	1.8	2.0
31.5	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.3	1.5	1.7	1.8
32.0	-0.1	-0.0	-0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.3	1.5	1.6
32.5	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.8	0.9	1.0	1.1	1.3	1.4
33.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2
33.5	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
34.0	0.1	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8
34.5	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.6
35.0	0.1	0.0	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.3	0.3	0.5
35.5	0.1	0.1	0.0	-0.0	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.3
36.0	0.2	0.1	0.0	-0.1	-0.1	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.2	-0.2	-0.2	-0.1	-0.0	0.1
36.5	0.2	0.1	0.0	-0.1	-0.1	-0.2	-0.2	-0.3	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3	-0.2	-0.1
37.0	0.2	0.1	0.0	-0.1	-0.2	-0.2	-0.3	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.4	-0.4	-0.3	
37.5	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.3	-0.4	-0.5	-0.5	-0.6	-0.6	-0.6	-0.7	-0.7	-0.7	-0.7	-0.6	-0.6	-0.6	-0.5
38.0	0.3	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.5	-0.6	-0.7	-0.7	-0.7	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.7
38.5	0.3	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6	-0.7	-0.7	-0.8	-0.9	-0.9	-0.9	-1.0	-1.0	-1.0	-1.0	-1.0	-0.9
39.0	0.3	0.2	0.0	-0.1	-0.2	-0.3	-0.5	-0.6	-0.7	-0.7	-0.8	-0.9	-1.0	-1.0	-1.1	-1.1	-1.1	-1.1	-1.2	-1.1	-1.1
39.5	0.3	0.2	0.0	-0.1	-0.2	-0.4	-0.5	-0.6	-0.7	-0.8	-0.9	-1.0	-1.1	-1.1	-1.2	-1.2	-1.3	-1.3	-1.3	-1.3	-1.3
40.0	0.4	0.2	0.0	-0.1	-0.3	-0.4	-0.5	-0.7	-0.8	-0.9	-1.0	-1.1	-1.2	-1.3	-1.3	-1.4	-1.4	-1.5	-1.5	-1.5	-1.5
40.5	0.4	0.2	0.0	-0.1	-0.3	-0.4	-0.6	-0.7	-0.8	-1.0	-1.1	-1.2	-1.3	-1.4	-1.5	-1.5	-1.6	-1.6	-1.7	-1.7	-1.7
41.0	0.4	0.2	0.0	-0.1	-0.3	-0.5	-0.6	-0.8	-0.9	-1.0	-1.2	-1.3	-1.4	-1.5	-1.6	-1.7	-1.7	-1.8	-1.9	-1.9	-1.9
41.5	0.4	0.2	0.0	-0.1	-0.3	-0.5	-0.7	-0.8	-1.0	-1.1	-1.3	-1.4	-1.5	-1.6	-1.7	-1.8	-1.9	-2.0	-2.0	-2.1	-2.1
42.0	0.5	0.3	0.0	-0.2	-0.3	-0.5	-0.7	-0.9	-1.0	-1.2	-1.3	-1.5	-1.6	-1.7	-1.8	-2.0	-2.0	-2.1	-2.2	-2.3	-2.3

TABLE 6. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec). FOR SIMULTANEOUS CHANGES IN SALINITY, TEMPERATURE, AND PRESSURE, V_{stp} - Continued

1500 METERS (155.81 kg/cm^2)

‰ \ °C	-4	-2	0	2	4	6	8	10	12	14	16	18	20	22	24	26
0.0	-1.7	-1.0	-0.3	0.4	1.1	1.9	2.6	3.4	4.2	4.9	5.7	6.5	7.4	8.2	9.0	9.9
0.5	-1.7	-1.0	-0.3	0.4	1.1	1.8	2.6	3.3	4.1	4.9	5.7	6.5	7.3	8.1	8.9	9.8
1.0	-1.7	-1.0	-0.3	0.4	1.1	1.8	2.5	3.3	4.0	4.8	5.6	6.4	7.2	8.0	8.8	9.6
1.5	-1.6	-1.0	-0.3	0.4	1.1	1.8	2.5	3.2	4.0	4.7	5.5	6.3	7.0	7.8	8.7	9.5
2.0	-1.6	-1.0	-0.3	0.4	1.1	1.8	2.5	3.2	3.9	4.6	5.4	6.2	6.9	7.7	8.5	9.3
2.5	-1.6	-0.9	-0.3	0.4	1.0	1.7	2.4	3.1	3.8	4.6	5.3	6.1	6.8	7.6	8.4	9.2
3.0	-1.6	-0.9	-0.3	0.4	1.0	1.7	2.4	3.1	3.8	4.5	5.2	6.0	6.7	7.5	8.3	9.1
3.5	-1.5	-0.9	-0.3	0.4	1.0	1.7	2.3	3.0	3.7	4.4	5.1	5.9	6.6	7.4	8.1	8.9
4.0	-1.5	-0.9	-0.3	0.4	1.0	1.6	2.3	3.0	3.7	4.4	5.1	5.8	6.5	7.2	8.0	8.8
4.5	-1.5	-0.9	-0.3	0.3	1.0	1.6	2.3	2.9	3.6	4.3	5.0	5.7	6.4	7.1	7.9	8.6
5.0	-1.5	-0.9	-0.3	0.3	1.0	1.6	2.2	2.9	3.5	4.2	4.9	5.6	6.3	7.0	7.7	8.5
5.5	-1.4	-0.8	-0.3	0.3	0.9	1.6	2.2	2.8	3.5	4.1	4.8	5.5	6.2	6.9	7.6	8.3
6.0	-1.4	-0.8	-0.3	0.3	0.9	1.5	2.1	2.8	3.4	4.1	4.7	5.4	6.1	6.8	7.5	8.2
6.5	-1.4	-0.8	-0.3	0.3	0.9	1.5	2.1	2.7	3.3	4.0	4.6	5.3	6.0	6.7	7.4	8.1
7.0	-1.3	-0.8	-0.2	0.3	0.9	1.5	2.1	2.7	3.3	3.9	4.5	5.2	5.9	6.5	7.2	7.9
7.5	-1.3	-0.8	-0.2	0.3	0.9	1.4	2.0	2.6	3.2	3.8	4.5	5.1	5.7	6.4	7.1	7.8
8.0	-1.3	-0.8	-0.2	0.3	0.9	1.4	2.0	2.6	3.2	3.8	4.4	5.0	5.6	6.3	7.0	7.6
8.5	-1.3	-0.8	-0.2	0.3	0.8	1.4	1.9	2.5	3.1	3.7	4.3	4.9	5.5	6.2	6.8	7.5
9.0	-1.2	-0.7	-0.2	0.3	0.8	1.4	1.9	2.5	3.0	3.6	4.2	4.8	5.4	6.1	6.7	7.4
9.5	-1.2	-0.7	-0.2	0.3	0.8	1.3	1.9	2.4	3.0	3.5	4.1	4.7	5.3	5.9	6.6	7.2
10.0	-1.2	-0.7	-0.2	0.3	0.8	1.3	1.8	2.4	2.9	3.5	4.0	4.6	5.2	5.8	6.4	7.1
10.5	-1.2	-0.7	-0.2	0.3	0.8	1.3	1.8	2.3	2.8	3.4	3.9	4.5	5.1	5.7	6.3	6.9
11.0	-1.1	-0.7	-0.2	0.3	0.7	1.2	1.7	2.3	2.8	3.3	3.9	4.4	5.0	5.6	6.2	6.8
11.5	-1.1	-0.7	-0.2	0.3	0.7	1.2	1.7	2.2	2.7	3.2	3.8	4.3	4.9	5.5	6.1	6.7
12.0	-1.1	-0.6	-0.2	0.2	0.7	1.2	1.7	2.1	2.7	3.2	3.7	4.2	4.8	5.3	5.9	6.5
12.5	-1.0	-0.6	-0.2	0.2	0.7	1.1	1.6	2.1	2.6	3.1	3.6	4.1	4.7	5.2	5.8	6.4
13.0	-1.0	-0.6	-0.2	0.2	0.7	1.1	1.6	2.0	2.5	3.0	3.5	4.0	4.6	5.1	5.7	6.2
13.5	-1.0	-0.6	-0.2	0.2	0.7	1.1	1.5	2.0	2.5	2.9	3.4	3.9	4.5	5.0	5.5	6.1
14.0	-1.0	-0.6	-0.2	0.2	0.6	1.1	1.5	1.9	2.4	2.9	3.3	3.8	4.3	4.9	5.4	5.9
14.5	-0.9	-0.6	-0.2	0.2	0.6	1.0	1.5	1.9	2.3	2.8	3.3	3.7	4.2	4.7	5.3	5.8
15.0	-0.9	-0.6	-0.2	0.2	0.6	1.0	1.4	1.8	2.3	2.7	3.2	3.6	4.1	4.6	5.1	5.7
15.5	-0.9	-0.5	-0.2	0.2	0.6	1.0	1.4	1.8	2.2	2.6	3.1	3.6	4.0	4.5	5.0	5.5
16.0	-0.9	-0.5	-0.2	0.2	0.6	0.9	1.3	1.7	2.1	2.6	3.0	3.5	3.9	4.4	4.9	5.4
16.5	-0.8	-0.5	-0.2	0.2	0.5	0.9	1.3	1.7	2.1	2.5	2.9	3.4	3.8	4.3	4.7	5.2
17.0	-0.8	-0.5	-0.2	0.2	0.5	0.9	1.3	1.6	2.0	2.4	2.8	3.3	3.7	4.2	4.6	5.1
17.5	-0.8	-0.5	-0.2	0.2	0.5	0.9	1.2	1.6	2.0	2.3	2.8	3.2	3.6	4.0	4.5	5.0
18.0	-0.8	-0.5	-0.2	0.2	0.5	0.8	1.2	1.5	1.9	2.3	2.7	3.1	3.5	3.9	4.4	4.8
18.5	-0.7	-0.4	-0.1	0.2	0.5	0.8	1.1	1.5	1.8	2.2	2.6	3.0	3.4	3.8	4.2	4.7
19.0	-0.7	-0.4	-0.1	0.2	0.5	0.8	1.1	1.4	1.8	2.1	2.5	2.9	3.3	3.7	4.1	4.5
19.5	-0.7	-0.4	-0.1	0.1	0.4	0.7	1.0	1.4	1.7	2.1	2.4	2.8	3.2	3.6	4.0	4.4
20.0	-0.6	-0.4	-0.1	0.1	0.4	0.7	1.0	1.3	1.6	2.0	2.3	2.7	3.1	3.4	3.8	4.2
20.5	-0.6	-0.4	-0.1	0.1	0.4	0.7	1.0	1.3	1.6	1.9	2.2	2.6	2.9	3.3	3.7	4.1
21.0	-0.6	-0.4	-0.1	0.1	0.4	0.6	0.9	1.2	1.5	1.8	2.2	2.5	2.8	3.2	3.6	4.0
21.5	-0.6	-0.3	-0.1	0.1	0.4	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.1	3.4	3.8

22.0	-0.5	-0.3	-0.1	0.1	0.3	0.6	0.8	1.1	1.4	1.7	2.0	2.3	2.6	3.0	3.3	3.7
22.5	-0.5	-0.3	-0.1	0.1	0.3	0.6	0.8	1.1	1.3	1.6	1.9	2.2	2.5	2.8	3.2	3.5
23.0	-0.5	-0.3	-0.1	0.1	0.3	0.5	0.8	1.0	1.3	1.5	1.8	2.1	2.4	2.7	3.1	3.4
23.5	-0.5	-0.3	-0.1	0.1	0.3	0.5	0.7	1.0	1.2	1.5	1.7	2.0	2.3	2.6	2.9	3.3
24.0	-0.4	-0.3	-0.1	0.1	0.3	0.5	0.7	0.9	1.1	1.4	1.6	1.9	2.2	2.5	2.8	3.1
24.5	-0.4	-0.3	-0.1	0.1	0.3	0.4	0.6	0.9	1.1	1.3	1.6	1.8	2.1	2.4	2.7	3.0
25.0	-0.4	-0.2	-0.1	0.1	0.2	0.4	0.6	0.8	1.0	1.2	1.5	1.7	2.0	2.3	2.5	2.8
25.5	-0.3	-0.2	-0.1	0.1	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.9	2.1	2.4	2.7
26.0	-0.3	-0.2	-0.1	0.1	0.2	0.4	0.5	0.7	0.9	1.1	1.3	1.5	1.8	2.0	2.3	2.6
26.5	-0.3	-0.2	-0.1	0.0	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.4	1.7	1.9	2.1	2.4
27.0	-0.3	-0.2	-0.1	0.0	0.2	0.3	0.4	0.6	0.8	0.9	1.1	1.3	1.5	1.8	2.0	2.3
27.5	-0.2	-0.2	-0.1	0.0	0.1	0.3	0.4	0.5	0.7	0.9	1.0	1.2	1.4	1.7	1.9	2.1
28.0	-0.2	-0.1	-0.1	0.0	0.1	0.2	0.4	0.5	0.6	0.8	1.0	1.1	1.3	1.5	1.8	2.0
28.5	-0.2	-0.1	-0.1	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.9	1.0	1.2	1.4	1.6	1.8
29.0	-0.2	-0.1	-0.1	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.3	1.5	1.7
29.5	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.8	1.0	1.2	1.4	1.6
30.0	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.4
30.5	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.1	1.3
31.0	-0.1	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.6	0.7	0.8	1.0	1.1
31.5	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.0
32.0	0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.9
32.5	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7
33.0	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.5	0.6
33.5	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.2	0.3	0.4
34.0	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.3
34.5	0.1	0.1	-0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	-0.0	0.1	0.2
35.0	0.2	0.1	0.0	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	0.0
35.5	0.2	0.1	0.0	-0.1	-0.1	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.2	-0.2	-0.1
36.0	0.2	0.1	0.0	-0.1	-0.2	-0.2	-0.3	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3
36.5	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.3	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.4
37.0	0.3	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.4	-0.5	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6
37.5	0.3	0.2	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6	-0.6	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7
38.0	0.3	0.2	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6	-0.7	-0.7	-0.8	-0.8	-0.8	-0.8	-0.8
38.5	0.4	0.2	0.0	-0.1	-0.2	-0.4	-0.5	-0.6	-0.7	-0.8	-0.8	-0.9	-0.9	-1.0	-1.0	-1.0
39.0	0.4	0.2	0.0	-0.1	-0.3	-0.4	-0.5	-0.6	-0.7	-0.8	-0.9	-1.0	-1.0	-1.1	-1.1	-1.1
39.5	0.4	0.2	0.0	-0.1	-0.3	-0.4	-0.6	-0.7	-0.8	-0.9	-1.0	-1.1	-1.1	-1.2	-1.2	-1.3
40.0	0.4	0.2	0.0	-0.1	-0.3	-0.5	-0.6	-0.7	-0.9	-1.0	-1.1	-1.2	-1.3	-1.3	-1.4	-1.4
40.5	0.5	0.2	0.0	-0.1	-0.3	-0.5	-0.7	-0.8	-0.9	-1.1	-1.2	-1.3	-1.4	-1.4	-1.5	-1.5
41.0	0.5	0.3	0.1	-0.1	-0.3	-0.5	-0.7	-0.9	-1.0	-1.1	-1.3	-1.4	-1.5	-1.6	-1.6	-1.7
41.5	0.5	0.3	0.1	-0.2	-0.4	-0.6	-0.7	-0.9	-1.1	-1.2	-1.3	-1.5	-1.6	-1.7	-1.8	-1.8
42.0	0.5	0.3	0.1	-0.2	-0.4	-0.6	-0.8	-1.0	-1.1	-1.3	-1.4	-1.6	-1.7	-1.8	-1.9	-2.0

TABLE 6. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR SIMULTANEOUS CHANGES IN SALINITY, TEMPERATURE, AND PRESSURE, V_{stp} - Continued

2000 METERS (207.41 kg/cm^2)

‰ \ °C	-4	-2	0	2	4	6	8	10	12	14	16	18	20	22	24	26
0.0	-1.7	-1.0	-0.4	0.3	1.0	1.7	2.5	3.2	4.0	4.8	5.6	6.4	7.2	8.0	8.9	9.8
0.5	-1.7	-1.0	-0.4	0.3	1.0	1.7	2.4	3.2	3.9	4.7	5.5	6.3	7.1	7.9	8.8	9.6
1.0	-1.7	-1.0	-0.4	0.3	1.0	1.7	2.4	3.1	3.9	4.6	5.4	6.2	7.0	7.8	8.6	9.5
1.5	-1.6	-1.0	-0.3	0.3	1.0	1.7	2.4	3.1	3.8	4.5	5.3	6.1	6.9	7.7	8.5	9.4
2.0	-1.6	-1.0	-0.3	0.3	1.0	1.6	2.3	3.0	3.7	4.5	5.2	6.0	6.8	7.6	8.4	9.2
2.5	-1.6	-1.0	-0.3	0.3	0.9	1.6	2.3	3.0	3.7	4.4	5.1	5.9	6.7	7.4	8.2	9.1
3.0	-1.5	-0.9	-0.3	0.3	0.9	1.6	2.2	2.9	3.6	4.3	5.0	5.8	6.5	7.3	8.1	8.9
3.5	-1.5	-0.9	-0.3	0.3	0.9	1.5	2.2	2.9	3.6	4.2	5.0	5.7	6.4	7.2	8.0	8.8
4.0	-1.5	-0.9	-0.3	0.3	0.9	1.5	2.2	2.8	3.5	4.2	4.9	5.6	6.3	7.1	7.9	8.6
4.5	-1.5	-0.9	-0.3	0.3	0.9	1.5	2.1	2.8	3.4	4.1	4.8	5.5	6.2	7.0	7.7	8.5
5.0	-1.4	-0.9	-0.3	0.3	0.9	1.5	2.1	2.7	3.4	4.0	4.7	5.4	6.1	6.9	7.6	8.4
5.5	-1.4	-0.9	-0.3	0.3	0.8	1.4	2.0	2.7	3.3	4.0	4.6	5.3	6.0	6.7	7.5	8.2
6.0	-1.4	-0.8	-0.3	0.3	0.8	1.4	2.0	2.6	3.2	3.9	4.5	5.2	5.9	6.6	7.3	8.1
6.5	-1.3	-0.8	-0.3	0.2	0.8	1.4	2.0	2.6	3.2	3.8	4.5	5.1	5.8	6.5	7.2	7.9
7.0	-1.3	-0.8	-0.3	0.2	0.8	1.3	1.9	2.5	3.1	3.7	4.4	5.0	5.7	6.4	7.1	7.8
7.5	-1.3	-0.8	-0.3	0.2	0.8	1.3	1.9	2.5	3.1	3.7	4.3	4.9	5.6	6.3	7.0	7.7
8.0	-1.3	-0.8	-0.3	0.2	0.8	1.3	1.8	2.4	3.0	3.6	4.2	4.8	5.5	6.1	6.8	7.5
8.5	-1.2	-0.8	-0.3	0.2	0.7	1.3	1.8	2.4	2.9	3.5	4.1	4.7	5.4	6.0	6.7	7.4
9.0	-1.2	-0.7	-0.3	0.2	0.7	1.2	1.8	2.3	2.9	3.4	4.0	4.6	5.3	5.9	6.6	7.2
9.5	-1.2	-0.7	-0.3	0.2	0.7	1.2	1.7	2.3	2.8	3.4	3.9	4.5	5.2	5.8	6.4	7.1
10.0	-1.2	-0.7	-0.3	0.2	0.7	1.2	1.7	2.2	2.7	3.3	3.9	4.4	5.1	5.7	6.3	7.0
10.5	-1.1	-0.7	-0.3	0.2	0.7	1.1	1.6	2.2	2.7	3.2	3.8	4.4	4.9	5.6	6.2	6.8
11.0	-1.1	-0.7	-0.2	0.2	0.7	1.1	1.6	2.1	2.6	3.1	3.7	4.3	4.8	5.4	6.0	6.7
11.5	-1.1	-0.7	-0.2	0.2	0.6	1.1	1.6	2.1	2.6	3.1	3.6	4.2	4.7	5.3	5.9	6.5
12.0	-1.0	-0.6	-0.2	0.2	0.6	1.1	1.5	2.0	2.5	3.0	3.5	4.1	4.6	5.2	5.8	6.4
12.5	-1.0	-0.6	-0.2	0.2	0.6	1.0	1.5	2.0	2.4	2.9	3.4	4.0	4.5	5.1	5.7	6.3
13.0	-1.0	-0.6	-0.2	0.2	0.6	1.0	1.4	1.9	2.4	2.9	3.4	3.9	4.4	5.0	5.5	6.1
13.5	-1.0	-0.6	-0.2	0.2	0.6	1.0	1.4	1.9	2.3	2.8	3.3	3.8	4.3	4.8	5.4	6.0
14.0	-0.9	-0.6	-0.2	0.2	0.5	0.9	1.4	1.8	2.2	2.7	3.2	3.7	4.2	4.7	5.3	5.8
14.5	-0.9	-0.6	-0.2	0.2	0.5	0.9	1.3	1.7	2.2	2.6	3.1	3.6	4.1	4.6	5.1	5.7
15.0	-0.9	-0.5	-0.2	0.1	0.5	0.9	1.3	1.7	2.1	2.6	3.0	3.5	4.0	4.5	5.0	5.6
15.5	-0.8	-0.5	-0.2	0.1	0.5	0.9	1.2	1.6	2.1	2.5	2.9	3.4	3.9	4.4	4.9	5.4
16.0	-0.8	-0.5	-0.2	0.1	0.5	0.8	1.2	1.6	2.0	2.4	2.8	3.3	3.8	4.3	4.8	5.3
16.5	-0.8	-0.5	-0.2	0.1	0.5	0.8	1.2	1.5	1.9	2.3	2.8	3.2	3.7	4.1	4.6	5.1
17.0	-0.8	-0.5	-0.2	0.1	0.4	0.8	1.1	1.5	1.9	2.3	2.7	3.1	3.6	4.0	4.5	5.0
17.5	-0.7	-0.5	-0.2	0.1	0.4	0.8	1.1	1.4	1.8	2.2	2.6	3.0	3.4	3.9	4.4	4.9
18.0	-0.7	-0.5	-0.2	0.1	0.4	0.7	1.0	1.4	1.7	2.1	2.5	2.9	3.3	3.8	4.2	4.7
18.5	-0.7	-0.4	-0.2	0.1	0.4	0.7	1.0	1.3	1.7	2.0	2.4	2.8	3.2	3.7	4.1	4.6
19.0	-0.7	-0.4	-0.2	0.1	0.4	0.7	1.0	1.3	1.6	2.0	2.3	2.7	3.1	3.5	4.0	4.4
19.5	-0.6	-0.4	-0.2	0.1	0.4	0.6	0.9	1.2	1.6	1.9	2.3	2.6	3.0	3.4	3.8	4.3
20.0	-0.6	-0.4	-0.2	0.1	0.3	0.6	0.9	1.2	1.5	1.8	2.2	2.5	2.9	3.3	3.7	4.2
20.5	-0.6	-0.4	-0.2	0.1	0.3	0.6	0.9	1.1	1.4	1.8	2.1	2.4	2.8	3.2	3.6	4.0
21.0	-0.5	-0.4	-0.1	0.1	0.3	0.6	0.8	1.1	1.4	1.7	2.0	2.3	2.7	3.1	3.5	3.9
21.5	-0.5	-0.3	-0.1	0.1	0.3	0.5	0.8	1.0	1.3	1.6	1.9	2.2	2.6	3.0	3.3	3.7

22.0	-0.5	-0.3	-0.1	0.1	0.3	0.5	0.7	1.0	1.3	1.5	1.8	2.2	2.5	2.8	3.2	3.6
22.5	-0.5	-0.3	-0.1	0.1	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.1	3.4
23.0	-0.4	-0.3	-0.1	0.0	0.2	0.4	0.7	0.9	1.1	1.4	1.7	2.0	2.3	2.6	2.9	3.3
23.5	-0.4	-0.3	-0.1	0.0	0.2	0.4	0.6	0.8	1.1	1.3	1.6	1.9	2.2	2.5	2.8	3.2
24.0	-0.4	-0.3	-0.1	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.5	1.8	2.1	2.4	2.7	3.0
24.5	-0.4	-0.2	-0.1	0.0	0.2	0.4	0.5	0.7	0.9	1.2	1.4	1.7	1.9	2.2	2.6	2.9
25.0	-0.3	-0.2	-0.1	0.0	0.2	0.3	0.5	0.7	0.9	1.1	1.3	1.6	1.8	2.1	2.4	2.7
25.5	-0.3	-0.2	-0.1	0.0	0.1	0.3	0.5	0.6	0.8	1.0	1.2	1.5	1.7	2.0	2.3	2.6
26.0	-0.3	-0.2	-0.1	0.0	0.1	0.3	0.4	0.6	0.8	0.9	1.2	1.4	1.6	1.9	2.2	2.5
26.5	-0.2	-0.2	-0.1	0.0	0.1	0.2	0.4	0.5	0.7	0.9	1.1	1.3	1.5	1.8	2.0	2.3
27.0	-0.2	-0.2	-0.1	0.0	0.1	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.4	1.7	1.9	2.2
27.5	-0.2	-0.1	-0.1	-0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.8	2.0
28.0	-0.2	-0.1	-0.1	-0.0	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.7	1.9
28.5	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.8
29.0	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.6
29.5	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5
30.0	-0.0	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.3
30.5	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2
31.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.6	0.7	0.9	1.1
31.5	0.0	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	0.0	0.1	0.1	0.2	0.3	0.5	0.6	0.7	0.9
32.0	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.1	0.2	0.3	0.5	0.6	0.8
32.5	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.1	0.1	0.2	0.4	0.5	0.6
33.0	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.4	0.5
33.5	0.1	0.1	-0.0	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	0.0	0.1	0.2	0.4
34.0	0.2	0.1	-0.0	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.0	0.1	0.2
34.5	0.2	0.1	-0.0	-0.1	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.2	-0.2	-0.1	-0.0	0.1
35.0	0.2	0.1	0.0	-0.1	-0.2	-0.2	-0.3	-0.3	-0.4	-0.4	-0.4	-0.3	-0.3	-0.2	-0.2	-0.1
35.5	0.3	0.1	0.0	-0.1	-0.2	-0.3	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.2
36.0	0.3	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.4	-0.3
36.5	0.3	0.2	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.5	-0.5
37.0	0.3	0.2	0.0	-0.1	-0.2	-0.4	-0.5	-0.5	-0.6	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.6
37.5	0.4	0.2	0.0	-0.1	-0.3	-0.4	-0.5	-0.6	-0.7	-0.7	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8
38.0	0.4	0.2	0.0	-0.1	-0.3	-0.4	-0.5	-0.6	-0.7	-0.8	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9
38.5	0.4	0.2	0.0	-0.1	-0.3	-0.4	-0.6	-0.7	-0.8	-0.9	-1.0	-1.0	-1.0	-1.1	-1.1	-1.0
39.0	0.5	0.2	0.0	-0.1	-0.3	-0.5	-0.6	-0.7	-0.9	-1.0	-1.0	-1.1	-1.2	-1.2	-1.2	-1.2
39.5	0.5	0.3	0.0	-0.2	-0.3	-0.5	-0.7	-0.8	-0.9	-1.0	-1.1	-1.2	-1.3	-1.3	-1.3	-1.3
40.0	0.5	0.3	0.1	-0.2	-0.4	-0.5	-0.7	-0.8	-1.0	-1.1	-1.2	-1.3	-1.4	-1.4	-1.5	-1.5
40.5	0.5	0.3	0.1	-0.2	-0.4	-0.6	-0.7	-0.9	-1.0	-1.2	-1.3	-1.4	-1.5	-1.5	-1.6	-1.6
41.0	0.6	0.3	0.1	-0.2	-0.4	-0.6	-0.8	-1.0	-1.1	-1.3	-1.4	-1.5	-1.6	-1.7	-1.7	-1.8
41.5	0.6	0.3	0.1	-0.2	-0.4	-0.6	-0.8	-1.0	-1.2	-1.3	-1.5	-1.6	-1.7	-1.8	-1.8	-1.9
42.0	0.6	0.3	0.1	-0.2	-0.4	-0.6	-0.9	-1.1	-1.2	-1.4	-1.5	-1.7	-1.8	-1.9	-2.0	-2.0

TABLE 6. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR SIMULTANEOUS CHANGES IN SALINITY, TEMPERATURE, AND PRESSURE, V_{stp} - Continued

2500 METERS (259.42 kg/cm^2)

‰ \ °C	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
30.0	0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	0.0	0.0
30.5	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0
31.0	0.1	0.0	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
31.5	0.1	0.1	0.0	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
32.0	0.1	0.1	0.0	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
32.5	0.2	0.1	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
33.0	0.2	0.1	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3
33.5	0.2	0.2	0.1	0.0	-0.0	-0.1	-0.1	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3
34.0	0.3	0.2	0.1	0.0	-0.0	-0.1	-0.1	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3	-0.4	-0.4
34.5	0.3	0.2	0.1	0.1	-0.0	-0.1	-0.1	-0.2	-0.2	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4
35.0	0.3	0.2	0.1	0.1	0.0	-0.1	-0.1	-0.2	-0.2	-0.3	-0.3	-0.4	-0.4	-0.4	-0.5
35.5	0.3	0.2	0.2	0.1	0.0	-0.1	-0.1	-0.2	-0.3	-0.3	-0.4	-0.4	-0.5	-0.5	-0.5
36.0	0.4	0.3	0.2	0.1	0.0	-0.1	-0.1	-0.2	-0.3	-0.3	-0.4	-0.4	-0.5	-0.5	-0.6
36.5	0.4	0.3	0.2	0.1	0.0	-0.1	-0.1	-0.2	-0.3	-0.4	-0.4	-0.5	-0.5	-0.6	-0.6
37.0	0.4	0.3	0.2	0.1	0.0	-0.1	-0.2	-0.2	-0.3	-0.4	-0.4	-0.5	-0.6	-0.6	-0.7
37.5	0.4	0.3	0.2	0.1	0.0	-0.1	-0.2	-0.2	-0.3	-0.4	-0.5	-0.5	-0.6	-0.7	-0.7
38.0	0.5	0.4	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.3	-0.4	-0.5	-0.6	-0.6	-0.7	-0.8
38.5	0.5	0.4	0.3	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.4	-0.5	-0.6	-0.7	-0.8	-0.8
39.0	0.5	0.4	0.3	0.2	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6	-0.6	-0.7	-0.8	-0.9
39.5	0.6	0.4	0.3	0.2	0.1	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6	-0.7	-0.8	-0.8	-0.9
40.0	0.6	0.4	0.3	0.2	0.1	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6	-0.7	-0.8	-0.9	-1.0
40.5	0.6	0.5	0.3	0.2	0.1	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6	-0.7	-0.8	-0.9	-1.0
41.0	0.6	0.5	0.3	0.2	0.1	-0.1	-0.2	-0.3	-0.4	-0.6	-0.7	-0.8	-0.9	-1.0	-1.1
41.5	0.7	0.5	0.4	0.2	0.1	-0.1	-0.2	-0.3	-0.5	-0.6	-0.7	-0.8	-0.9	-1.0	-1.1
42.0	0.7	0.5	0.4	0.2	0.1	-0.1	-0.2	-0.3	-0.5	-0.6	-0.7	-0.8	-1.0	-1.1	-1.2

TABLE 6. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR SIMULTANEOUS CHANGES IN SALINITY, TEMPERATURE, AND PRESSURE, V_{stp} - Continued

3000 METERS (311.51 kg/cm^2)

‰ \ °C	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
30.0	0.1	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1
30.5	0.1	0.1	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
31.0	0.2	0.1	0.1	0.0	-0.0	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
31.5	0.2	0.1	0.1	0.0	-0.0	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3
32.0	0.2	0.2	0.1	0.0	-0.0	-0.1	-0.1	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3
32.5	0.3	0.2	0.1	0.0	-0.0	-0.1	-0.1	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.4	-0.4
33.0	0.3	0.2	0.1	0.0	-0.0	-0.1	-0.1	-0.2	-0.2	-0.3	-0.3	-0.4	-0.4	-0.4	-0.4
33.5	0.3	0.2	0.1	0.1	-0.0	-0.1	-0.2	-0.2	-0.3	-0.3	-0.4	-0.4	-0.4	-0.4	-0.5
34.0	0.3	0.2	0.2	0.1	-0.0	-0.1	-0.2	-0.2	-0.3	-0.3	-0.4	-0.4	-0.5	-0.5	-0.5
34.5	0.4	0.3	0.2	0.1	-0.0	-0.1	-0.2	-0.2	-0.3	-0.4	-0.4	-0.5	-0.5	-0.5	-0.6

35.0	0.4	0.3	0.2	0.1	0.0	-0.1	-0.2	-0.2	-0.3	-0.4	-0.4	-0.5	-0.5	-0.6	-0.6
35.5	0.4	0.3	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.3	-0.4	-0.5	-0.5	-0.6	-0.6	-0.7
36.0	0.4	0.3	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.3	-0.4	-0.5	-0.6	-0.6	-0.7	-0.7
36.5	0.5	0.4	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.4	-0.5	-0.6	-0.7	-0.7	-0.8
37.0	0.5	0.4	0.3	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.5	-0.6	-0.7	-0.8	-0.8
37.5	0.5	0.4	0.3	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6	-0.7	-0.7	-0.8	-0.9
38.0	0.6	0.4	0.3	0.2	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6	-0.7	-0.8	-0.9	-0.9
38.5	0.6	0.4	0.3	0.2	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6	-0.7	-0.8	-0.9	-1.0
39.0	0.6	0.5	0.3	0.2	0.0	-0.1	-0.2	-0.3	-0.4	-0.6	-0.7	-0.8	-0.9	-0.9	-1.0
39.5	0.6	0.5	0.3	0.2	0.1	-0.1	-0.2	-0.3	-0.5	-0.6	-0.7	-0.8	-0.9	-1.0	-1.1
40.0	0.7	0.5	0.4	0.2	0.1	-0.1	-0.2	-0.4	-0.5	-0.6	-0.7	-0.8	-0.9	-1.0	-1.1
40.5	0.7	0.5	0.4	0.2	0.1	-0.1	-0.2	-0.4	-0.5	-0.6	-0.7	-0.9	-1.0	-1.1	-1.2
41.0	0.7	0.6	0.4	0.2	0.1	-0.1	-0.2	-0.4	-0.5	-0.6	-0.8	-0.9	-1.0	-1.1	-1.2
41.5	0.8	0.6	0.4	0.2	0.1	-0.1	-0.2	-0.4	-0.5	-0.7	-0.8	-0.9	-1.0	-1.2	-1.3
42.0	0.8	0.6	0.4	0.2	0.1	-0.1	-0.2	-0.4	-0.5	-0.7	-0.8	-1.0	-1.1	-1.2	-1.3

TABLE 6. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR SIMULTANEOUS CHANGES IN SALINITY, TEMPERATURE, AND PRESSURE, V_{stp} - Continued

4000 METERS
(415.86 kg/cm^2)

‰ \ °C	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
30.0	0.3	0.2	0.1	0.0	-0.0	-0.1	-0.2	-0.3	-0.3	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5
30.5	0.3	0.2	0.1	0.0	-0.0	-0.1	-0.2	-0.3	-0.3	-0.4	-0.4	-0.5	-0.5	-0.5	-0.5
31.0	0.4	0.3	0.2	0.1	-0.0	-0.1	-0.2	-0.3	-0.3	-0.4	-0.5	-0.5	-0.5	-0.6	-0.6
31.5	0.4	0.3	0.2	0.1	-0.0	-0.1	-0.2	-0.3	-0.4	-0.4	-0.5	-0.5	-0.6	-0.6	-0.6
32.0	0.4	0.3	0.2	0.1	-0.0	-0.1	-0.2	-0.3	-0.4	-0.4	-0.5	-0.6	-0.6	-0.7	-0.7
32.5	0.5	0.3	0.2	0.1	-0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.5	-0.6	-0.7	-0.7	-0.7
33.0	0.5	0.3	0.2	0.1	-0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6	-0.6	-0.7	-0.7	-0.8
33.5	0.5	0.4	0.2	0.1	-0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6	-0.7	-0.7	-0.8	-0.8
34.0	0.5	0.4	0.3	0.1	-0.0	-0.1	-0.2	-0.4	-0.4	-0.5	-0.6	-0.7	-0.8	-0.8	-0.9
34.5	0.6	0.4	0.3	0.1	-0.0	-0.1	-0.3	-0.4	-0.5	-0.6	-0.7	-0.7	-0.8	-0.9	-0.9
35.0	0.6	0.4	0.3	0.1	0.0	-0.1	-0.3	-0.4	-0.5	-0.6	-0.7	-0.8	-0.9	-0.9	-1.0
35.5	0.6	0.5	0.3	0.1	0.0	-0.1	-0.3	-0.4	-0.5	-0.6	-0.7	-0.8	-0.9	-1.0	-1.0
36.0	0.6	0.5	0.3	0.2	0.0	-0.1	-0.3	-0.4	-0.5	-0.6	-0.7	-0.8	-0.9	-1.0	-1.1
36.5	0.7	0.5	0.3	0.2	0.0	-0.1	-0.3	-0.4	-0.5	-0.7	-0.8	-0.9	-1.0	-1.1	-1.1
37.0	0.7	0.5	0.3	0.2	0.0	-0.1	-0.3	-0.4	-0.6	-0.7	-0.8	-0.9	-1.0	-1.1	-1.2
37.5	0.7	0.5	0.4	0.2	0.0	-0.1	-0.3	-0.4	-0.6	-0.7	-0.8	-0.9	-1.1	-1.2	-1.2
38.0	0.8	0.6	0.4	0.2	0.0	-0.1	-0.3	-0.4	-0.6	-0.7	-0.9	-1.0	-1.1	-1.2	-1.3
38.5	0.8	0.6	0.4	0.2	0.0	-0.1	-0.3	-0.5	-0.6	-0.8	-0.9	-1.0	-1.1	-1.2	-1.3
39.0	0.8	0.6	0.4	0.2	0.0	-0.1	-0.3	-0.5	-0.6	-0.8	-0.9	-1.0	-1.2	-1.3	-1.4
39.5	0.8	0.6	0.4	0.2	0.0	-0.1	-0.3	-0.5	-0.6	-0.8	-0.9	-1.1	-1.2	-1.3	-1.5
40.0	0.9	0.7	0.4	0.2	0.0	-0.1	-0.3	-0.5	-0.7	-0.8	-1.0	-1.1	-1.3	-1.4	-1.5
40.5	0.9	0.7	0.5	0.3	0.1	-0.1	-0.3	-0.5	-0.7	-0.8	-1.0	-1.2	-1.3	-1.4	-1.6
41.0	0.9	0.7	0.5	0.3	0.1	-0.1	-0.3	-0.5	-0.7	-0.9	-1.0	-1.2	-1.3	-1.5	-1.6
41.5	0.9	0.7	0.5	0.3	0.1	-0.1	-0.3	-0.5	-0.7	-0.9	-1.1	-1.2	-1.4	-1.5	-1.7
42.0	1.0	0.7	0.5	0.3	0.1	-0.1	-0.3	-0.5	-0.7	-0.9	-1.1	-1.3	-1.4	-1.6	-1.7

TABLE 6. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR SIMULTANEOUS CHANGES IN SALINITY, TEMPERATURE, AND PRESSURE, V_{stp} - Continued

5000 METERS
(520.58 kg/cm^2)

‰ \ °C	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0.0	0.5	1.0	1.5	2.0	2.5	3.0
32.0	0.6	0.5	0.4	0.3	0.2	0.1	0.1	-0.0	-0.1	-0.2	-0.2	-0.3	-0.4	-0.5
32.5	0.6	0.5	0.4	0.3	0.2	0.2	0.1	-0.0	-0.1	-0.2	-0.3	-0.3	-0.4	-0.5
33.0	0.6	0.5	0.4	0.3	0.3	0.2	0.1	-0.0	-0.1	-0.2	-0.3	-0.3	-0.4	-0.5
33.5	0.7	0.6	0.5	0.4	0.3	0.2	0.1	-0.0	-0.1	-0.2	-0.3	-0.3	-0.4	-0.5
34.0	0.7	0.6	0.5	0.4	0.3	0.2	0.1	-0.0	-0.1	-0.2	-0.3	-0.4	-0.4	-0.5
34.5	0.7	0.6	0.5	0.4	0.3	0.2	0.1	-0.0	-0.1	-0.2	-0.3	-0.4	-0.4	-0.5
35.0	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.5
35.5	0.8	0.6	0.5	0.4	0.3	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6
36.0	0.8	0.7	0.5	0.4	0.3	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6
36.5	0.8	0.7	0.6	0.4	0.3	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6
37.0	0.8	0.7	0.6	0.5	0.3	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6
37.5	0.8	0.7	0.6	0.5	0.4	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6
38.0	0.9	0.7	0.6	0.5	0.4	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6
38.5	0.9	0.8	0.6	0.5	0.4	0.3	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6
39.0	0.9	0.8	0.6	0.5	0.4	0.3	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.7

‰ \ °C	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
32.0	-0.5	-0.6	-0.6	-0.7	-0.8	-0.8	-0.9	-0.9	-1.0	-1.0	-1.0	-1.1	-1.1	-1.1
32.5	-0.5	-0.6	-0.7	-0.7	-0.8	-0.8	-0.9	-0.9	-1.0	-1.0	-1.1	-1.1	-1.2	-1.2
33.0	-0.6	-0.6	-0.7	-0.8	-0.8	-0.9	-0.9	-1.0	-1.0	-1.1	-1.1	-1.2	-1.2	-1.3
33.5	-0.6	-0.6	-0.7	-0.8	-0.8	-0.9	-1.0	-1.0	-1.1	-1.1	-1.2	-1.2	-1.3	-1.3
34.0	-0.6	-0.7	-0.7	-0.8	-0.9	-0.9	-1.0	-1.1	-1.1	-1.2	-1.2	-1.3	-1.3	-1.4
34.5	-0.6	-0.7	-0.8	-0.8	-0.9	-1.0	-1.0	-1.1	-1.2	-1.2	-1.3	-1.3	-1.4	-1.4
35.0	-0.6	-0.7	-0.8	-0.9	-0.9	-1.0	-1.1	-1.1	-1.2	-1.3	-1.3	-1.4	-1.4	-1.5
35.5	-0.6	-0.7	-0.8	-0.9	-1.0	-1.0	-1.1	-1.2	-1.2	-1.3	-1.4	-1.4	-1.5	-1.5
36.0	-0.7	-0.7	-0.8	-0.9	-1.0	-1.1	-1.1	-1.2	-1.3	-1.3	-1.4	-1.5	-1.5	-1.6
36.5	-0.7	-0.8	-0.8	-0.9	-1.0	-1.1	-1.2	-1.2	-1.3	-1.4	-1.4	-1.5	-1.6	-1.6
37.0	-0.7	-0.8	-0.9	-1.0	-1.0	-1.1	-1.2	-1.3	-1.3	-1.4	-1.5	-1.6	-1.6	-1.7
37.5	-0.7	-0.8	-0.9	-1.0	-1.1	-1.2	-1.2	-1.3	-1.4	-1.5	-1.5	-1.6	-1.7	-1.7
38.0	-0.7	-0.8	-0.9	-1.0	-1.1	-1.2	-1.3	-1.3	-1.4	-1.5	-1.6	-1.7	-1.7	-1.8
38.5	-0.7	-0.8	-0.9	-1.0	-1.1	-1.2	-1.3	-1.4	-1.5	-1.5	-1.6	-1.7	-1.8	-1.8
39.0	-0.8	-0.9	-1.0	-1.1	-1.2	-1.2	-1.3	-1.4	-1.5	-1.6	-1.7	-1.7	-1.8	-1.9

TABLE 6. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR SIMULTANEOUS CHANGES IN SALINITY, TEMPERATURE, AND PRESSURE, V_{stp} - Continued

6000 METERS
(625.75 kg/cm^2)

‰ \ °C	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0.0	0.5	1.0	1.5	2.0	2.5	3.0
32.0	0.9	0.7	0.6	0.5	0.4	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6
32.5	0.9	0.8	0.6	0.5	0.4	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.7
33.0	0.9	0.8	0.6	0.5	0.4	0.3	0.1	0.0	-0.1	-0.2	-0.3	-0.5	-0.6	-0.7
33.5	0.9	0.8	0.7	0.5	0.4	0.3	0.1	0.0	-0.1	-0.2	-0.4	-0.5	-0.6	-0.7
34.0	1.0	0.8	0.7	0.5	0.4	0.3	0.1	0.0	-0.1	-0.2	-0.4	-0.5	-0.6	-0.7
34.5	1.0	0.8	0.7	0.5	0.4	0.3	0.1	0.0	-0.1	-0.3	-0.4	-0.5	-0.6	-0.7
35.0	1.0	0.8	0.7	0.5	0.4	0.3	0.1	0.0	-0.1	-0.3	-0.4	-0.5	-0.6	-0.7
35.5	1.0	0.9	0.7	0.6	0.4	0.3	0.1	-0.0	-0.1	-0.3	-0.4	-0.5	-0.6	-0.8
36.0	1.0	0.9	0.7	0.6	0.4	0.3	0.1	-0.0	-0.1	-0.3	-0.4	-0.5	-0.7	-0.8
36.5	1.0	0.9	0.7	0.6	0.4	0.3	0.1	-0.0	-0.1	-0.3	-0.4	-0.5	-0.7	-0.8
37.0	1.1	0.9	0.7	0.6	0.4	0.3	0.1	-0.0	-0.1	-0.3	-0.4	-0.6	-0.7	-0.8
37.5	1.1	0.9	0.8	0.6	0.4	0.3	0.1	-0.0	-0.2	-0.3	-0.4	-0.6	-0.7	-0.8
38.0	1.1	0.9	0.8	0.6	0.5	0.3	0.1	-0.0	-0.2	-0.3	-0.4	-0.6	-0.7	-0.8
38.5	1.1	0.9	0.8	0.6	0.5	0.3	0.1	-0.0	-0.2	-0.3	-0.5	-0.6	-0.7	-0.9
39.0	1.1	1.0	0.8	0.6	0.5	0.3	0.1	-0.0	-0.2	-0.3	-0.5	-0.6	-0.7	-0.9

‰ \ °C	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
32.0	-0.7	-0.8	-0.9	-1.0	-1.1	-1.2	-1.3	-1.3	-1.4	-1.5	-1.5	-1.6	-1.7	-1.7
32.5	-0.8	-0.8	-0.9	-1.0	-1.1	-1.2	-1.3	-1.4	-1.4	-1.5	-1.6	-1.7	-1.7	-1.8
33.0	-0.8	-0.9	-1.0	-1.1	-1.2	-1.2	-1.3	-1.4	-1.5	-1.6	-1.6	-1.7	-1.8	-1.8
33.5	-0.8	-0.9	-1.0	-1.1	-1.2	-1.3	-1.4	-1.4	-1.5	-1.6	-1.7	-1.8	-1.8	-1.9
34.0	-0.8	-0.9	-1.0	-1.1	-1.2	-1.3	-1.4	-1.5	-1.6	-1.7	-1.7	-1.8	-1.9	-2.0
34.5	-0.8	-0.9	-1.0	-1.2	-1.2	-1.3	-1.4	-1.5	-1.6	-1.7	-1.8	-1.9	-1.9	-2.0
35.0	-0.9	-1.0	-1.1	-1.2	-1.3	-1.4	-1.5	-1.6	-1.7	-1.7	-1.8	-1.9	-2.0	-2.1
35.5	-0.9	-1.0	-1.1	-1.2	-1.3	-1.4	-1.5	-1.6	-1.7	-1.8	-1.9	-2.0	-2.0	-2.1
36.0	-0.9	-1.0	-1.1	-1.2	-1.3	-1.5	-1.6	-1.7	-1.7	-1.8	-1.9	-2.0	-2.1	-2.2
36.5	-0.9	-1.0	-1.2	-1.3	-1.4	-1.5	-1.6	-1.7	-1.8	-1.9	-2.0	-2.1	-2.2	-2.2
37.0	-0.9	-1.1	-1.2	-1.3	-1.4	-1.5	-1.6	-1.7	-1.8	-1.9	-2.0	-2.1	-2.2	-2.3
37.5	-1.0	-1.1	-1.2	-1.3	-1.4	-1.6	-1.7	-1.8	-1.9	-2.0	-2.1	-2.2	-2.3	-2.4
38.0	-1.0	-1.1	-1.2	-1.4	-1.5	-1.6	-1.7	-1.8	-1.9	-2.0	-2.1	-2.2	-2.3	-2.4
38.5	-1.0	-1.1	-1.3	-1.4	-1.5	-1.6	-1.7	-1.9	-2.0	-2.1	-2.2	-2.3	-2.4	-2.5
39.0	-1.0	-1.2	-1.3	-1.4	-1.5	-1.7	-1.8	-1.9	-2.0	-2.1	-2.2	-2.3	-2.4	-2.5

TABLE 6. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR SIMULTANEOUS CHANGES IN SALINITY, TEMPERATURE, AND PRESSURE, V_{stp} - Continued

7000 METERS
(731.39 kg/cm^2)

‰ \ °C	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0.0	0.5	1.0	1.5	2.0	2.5	3.0
32.0	1.2	1.0	0.9	0.7	0.5	0.4	0.2	0.0	-0.1	-0.3	-0.4	-0.6	-0.7	-0.8
32.5	1.2	1.1	0.9	0.7	0.5	0.4	0.2	0.0	-0.1	-0.3	-0.4	-0.6	-0.7	-0.9
33.0	1.2	1.1	0.9	0.7	0.5	0.4	0.2	0.0	-0.1	-0.3	-0.4	-0.6	-0.7	-0.9
33.5	1.3	1.1	0.9	0.7	0.5	0.4	0.2	0.0	-0.1	-0.3	-0.5	-0.6	-0.8	-0.9
34.0	1.3	1.1	0.9	0.7	0.5	0.4	0.2	0.0	-0.2	-0.3	-0.5	-0.6	-0.8	-0.9
34.5	1.3	1.1	0.9	0.7	0.5	0.4	0.2	0.0	-0.2	-0.3	-0.5	-0.7	-0.8	-1.0
35.0	1.3	1.1	0.9	0.7	0.5	0.4	0.2	0.0	-0.2	-0.3	-0.5	-0.7	-0.8	-1.0
35.5	1.3	1.1	0.9	0.7	0.5	0.4	0.2	-0.0	-0.2	-0.4	-0.5	-0.7	-0.9	-1.0
36.0	1.3	1.1	0.9	0.7	0.5	0.4	0.2	-0.0	-0.2	-0.4	-0.5	-0.7	-0.9	-1.0
36.5	1.3	1.1	0.9	0.7	0.5	0.4	0.2	-0.0	-0.2	-0.4	-0.6	-0.7	-0.9	-1.1
37.0	1.3	1.1	0.9	0.7	0.5	0.4	0.2	-0.0	-0.2	-0.4	-0.6	-0.7	-0.9	-1.1
37.5	1.4	1.2	0.9	0.7	0.5	0.4	0.2	-0.0	-0.2	-0.4	-0.6	-0.8	-0.9	-1.1
38.0	1.4	1.2	1.0	0.8	0.5	0.3	0.2	-0.0	-0.2	-0.4	-0.6	-0.8	-1.0	-1.1
38.5	1.4	1.2	1.0	0.8	0.6	0.3	0.2	-0.0	-0.2	-0.4	-0.6	-0.8	-1.0	-1.1
39.0	1.4	1.2	1.0	0.8	0.6	0.3	0.1	-0.1	-0.2	-0.4	-0.6	-0.8	-1.0	-1.2

‰ \ °C	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
32.0	-1.0	-1.1	-1.2	-1.4	-1.5	-1.6	-1.7	-1.8	-1.9	-2.0	-2.1	-2.2	-2.3	-2.4
32.5	-1.0	-1.1	-1.3	-1.4	-1.5	-1.6	-1.8	-1.9	-2.0	-2.1	-2.2	-2.3	-2.4	-2.5
33.0	-1.0	-1.2	-1.3	-1.4	-1.6	-1.7	-1.8	-1.9	-2.0	-2.2	-2.3	-2.4	-2.5	-2.6
33.5	-1.1	-1.2	-1.3	-1.5	-1.6	-1.7	-1.9	-2.0	-2.1	-2.2	-2.3	-2.4	-2.5	-2.6
34.0	-1.1	-1.2	-1.4	-1.5	-1.6	-1.8	-1.9	-2.0	-2.1	-2.3	-2.4	-2.5	-2.6	-2.7
34.5	-1.1	-1.3	-1.4	-1.5	-1.7	-1.8	-1.9	-2.1	-2.2	-2.3	-2.4	-2.5	-2.6	-2.7
35.0	-1.1	-1.3	-1.4	-1.6	-1.7	-1.8	-2.0	-2.1	-2.2	-2.4	-2.5	-2.6	-2.7	-2.8
35.5	-1.2	-1.3	-1.5	-1.6	-1.8	-1.9	-2.0	-2.2	-2.3	-2.4	-2.5	-2.6	-2.8	-2.9
36.0	-1.2	-1.3	-1.5	-1.6	-1.8	-1.9	-2.1	-2.2	-2.3	-2.5	-2.6	-2.7	-2.8	-2.9
36.5	-1.2	-1.4	-1.5	-1.7	-1.8	-2.0	-2.1	-2.2	-2.4	-2.5	-2.6	-2.8	-2.9	-3.0
37.0	-1.2	-1.4	-1.6	-1.7	-1.9	-2.0	-2.2	-2.3	-2.4	-2.6	-2.7	-2.8	-2.9	-3.1
37.5	-1.3	-1.4	-1.6	-1.7	-1.9	-2.1	-2.2	-2.3	-2.5	-2.6	-2.7	-2.9	-3.0	-3.1
38.0	-1.3	-1.5	-1.6	-1.8	-1.9	-2.1	-2.2	-2.4	-2.5	-2.7	-2.8	-2.9	-3.1	-3.2
38.5	-1.3	-1.5	-1.7	-1.8	-2.0	-2.1	-2.3	-2.4	-2.6	-2.7	-2.9	-3.0	-3.1	-3.2
39.0	-1.3	-1.5	-1.7	-1.9	-2.0	-2.2	-2.3	-2.5	-2.6	-2.8	-2.9	-3.0	-3.2	-3.3

TABLE 6. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR SIMULTANEOUS CHANGES IN SALINITY, TEMPERATURE, AND PRESSURE, V_{stp} - Continued

8000 METERS
(837.49 kg/cm^2)

‰ \ °C	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0.0	0.5	1.0	1.5	2.0	2.5	3.0
32.0	1.6	1.4	1.2	0.9	0.7	0.5	0.3	0.1	-0.1	-0.3	-0.5	-0.7	-0.9	-1.1
32.5	1.6	1.4	1.2	0.9	0.7	0.5	0.3	0.1	-0.1	-0.3	-0.5	-0.7	-0.9	-1.1
33.0	1.6	1.4	1.2	0.9	0.7	0.5	0.3	0.1	-0.2	-0.4	-0.6	-0.8	-1.0	-1.2
33.5	1.6	1.4	1.2	0.9	0.7	0.5	0.3	0.0	-0.2	-0.4	-0.6	-0.8	-1.0	-1.2
34.0	1.6	1.4	1.2	0.9	0.7	0.5	0.2	0.0	-0.2	-0.4	-0.6	-0.8	-1.0	-1.2
34.5	1.7	1.4	1.2	0.9	0.7	0.5	0.2	0.0	-0.2	-0.4	-0.6	-0.8	-1.0	-1.2
35.0	1.7	1.4	1.2	0.9	0.7	0.5	0.2	0.0	-0.2	-0.4	-0.7	-0.9	-1.1	-1.3
35.5	1.7	1.4	1.2	0.9	0.7	0.4	0.2	-0.0	-0.2	-0.5	-0.7	-0.9	-1.1	-1.3
36.0	1.7	1.4	1.2	0.9	0.7	0.4	0.2	-0.0	-0.3	-0.5	-0.7	-0.9	-1.1	-1.3
36.5	1.7	1.4	1.2	0.9	0.7	0.4	0.2	-0.0	-0.3	-0.5	-0.7	-0.9	-1.2	-1.4
37.0	1.7	1.4	1.2	0.9	0.7	0.4	0.2	-0.1	-0.3	-0.5	-0.7	-1.0	-1.2	-1.4
37.5	1.7	1.4	1.2	0.9	0.7	0.4	0.2	-0.1	-0.3	-0.5	-0.8	-1.0	-1.2	-1.4
38.0	1.7	1.4	1.2	0.9	0.7	0.4	0.2	-0.1	-0.3	-0.6	-0.8	-1.0	-1.2	-1.5
38.5	1.7	1.4	1.2	0.9	0.7	0.4	0.2	-0.1	-0.3	-0.6	-0.8	-1.0	-1.3	-1.5
39.0	1.7	1.4	1.2	0.9	0.7	0.4	0.1	-0.1	-0.3	-0.6	-0.8	-1.1	-1.3	-1.5

‰ \ °C	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
32.0	-1.3	-1.5	-1.6	-1.8	-2.0	-2.1	-2.3	-2.4	-2.6	-2.7	-2.9	-3.0	-3.1	-3.3
32.5	-1.3	-1.5	-1.7	-1.8	-2.0	-2.2	-2.3	-2.5	-2.6	-2.8	-2.9	-3.1	-3.2	-3.3
33.0	-1.3	-1.5	-1.7	-1.9	-2.1	-2.2	-2.4	-2.5	-2.7	-2.9	-3.0	-3.1	-3.3	-3.4
33.5	-1.4	-1.6	-1.7	-1.9	-2.1	-2.3	-2.4	-2.6	-2.8	-2.9	-3.1	-3.2	-3.3	-3.5
34.0	-1.4	-1.6	-1.8	-2.0	-2.1	-2.3	-2.5	-2.7	-2.8	-3.0	-3.1	-3.3	-3.4	-3.6
34.5	-1.4	-1.6	-1.8	-2.0	-2.2	-2.4	-2.5	-2.7	-2.9	-3.0	-3.2	-3.3	-3.5	-3.6
35.0	-1.5	-1.7	-1.9	-2.0	-2.2	-2.4	-2.6	-2.8	-2.9	-3.1	-3.2	-3.4	-3.5	-3.7
35.5	-1.5	-1.7	-1.9	-2.1	-2.3	-2.5	-2.6	-2.8	-3.0	-3.1	-3.3	-3.5	-3.6	-3.8
36.0	-1.5	-1.7	-1.9	-2.1	-2.3	-2.5	-2.7	-2.9	-3.0	-3.2	-3.4	-3.5	-3.7	-3.8
36.5	-1.6	-1.8	-2.0	-2.2	-2.4	-2.6	-2.7	-2.9	-3.1	-3.3	-3.4	-3.6	-3.7	-3.9
37.0	-1.6	-1.8	-2.0	-2.2	-2.4	-2.6	-2.8	-3.0	-3.1	-3.3	-3.5	-3.7	-3.8	-4.0
37.5	-1.6	-1.8	-2.1	-2.3	-2.5	-2.6	-2.8	-3.0	-3.2	-3.4	-3.5	-3.7	-3.9	-4.0
38.0	-1.7	-1.9	-2.1	-2.3	-2.5	-2.7	-2.9	-3.1	-3.3	-3.4	-3.6	-3.8	-3.9	-4.1
38.5	-1.7	-1.9	-2.1	-2.3	-2.5	-2.7	-2.9	-3.1	-3.3	-3.5	-3.7	-3.8	-4.0	-4.2
39.0	-1.7	-2.0	-2.2	-2.4	-2.6	-2.8	-3.0	-3.2	-3.4	-3.5	-3.7	-3.9	-4.1	-4.2

TABLE 6. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR SIMULTANEOUS CHANGES IN SALINITY, TEMPERATURE, AND PRESSURE, V_{stp} - Continued

9000 METERS
(943.96 kg/cm^2)

‰ \ °C	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0.0	0.5	1.0	1.5	2.0	2.5	3.0
32.0	2.1	1.8	1.5	1.2	0.9	0.7	0.4	0.1	-0.1	-0.4	-0.7	-0.9	-1.1	-1.4
32.5	2.1	1.8	1.5	1.2	0.9	0.7	0.4	0.1	-0.2	-0.4	-0.7	-0.9	-1.2	-1.4
33.0	2.1	1.8	1.5	1.2	0.9	0.6	0.4	0.1	-0.2	-0.4	-0.7	-1.0	-1.2	-1.5
33.5	2.1	1.8	1.5	1.2	0.9	0.6	0.3	0.1	-0.2	-0.5	-0.7	-1.0	-1.3	-1.5
34.0	2.1	1.8	1.5	1.2	0.9	0.6	0.3	0.0	-0.2	-0.5	-0.8	-1.0	-1.3	-1.5
34.5	2.1	1.8	1.5	1.2	0.9	0.6	0.3	0.0	-0.3	-0.5	-0.8	-1.1	-1.3	-1.6
35.0	2.1	1.8	1.5	1.2	0.9	0.6	0.3	0.0	-0.3	-0.6	-0.8	-1.1	-1.4	-1.6
35.5	2.1	1.8	1.5	1.2	0.9	0.6	0.3	-0.0	-0.3	-0.6	-0.9	-1.1	-1.4	-1.7
36.0	2.1	1.8	1.5	1.1	0.8	0.5	0.2	-0.0	-0.3	-0.6	-0.9	-1.2	-1.4	-1.7
36.5	2.1	1.8	1.4	1.1	0.8	0.5	0.2	-0.1	-0.4	-0.6	-0.9	-1.2	-1.5	-1.7
37.0	2.1	1.8	1.4	1.1	0.8	0.5	0.2	-0.1	-0.4	-0.7	-0.9	-1.2	-1.5	-1.8
37.5	2.1	1.8	1.4	1.1	0.8	0.5	0.2	-0.1	-0.4	-0.7	-1.0	-1.3	-1.5	-1.8
38.0	2.1	1.7	1.4	1.1	0.8	0.5	0.2	-0.1	-0.4	-0.7	-1.0	-1.3	-1.6	-1.8
38.5	2.1	1.7	1.4	1.1	0.8	0.5	0.2	-0.1	-0.4	-0.7	-1.0	-1.3	-1.6	-1.9
39.0	2.1	1.7	1.4	1.1	0.8	0.4	0.1	-0.2	-0.5	-0.8	-1.1	-1.4	-1.6	-1.9

‰ \ °C	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
32.0	-1.6	-1.9	-2.1	-2.3	-2.5	-2.7	-3.0	-3.2	-3.4	-3.6	-3.7	-3.9	-4.1	-4.3
32.5	-1.7	-1.9	-2.1	-2.4	-2.6	-2.8	-3.0	-3.2	-3.4	-3.6	-3.8	-4.0	-4.2	-4.4
33.0	-1.7	-1.9	-2.2	-2.4	-2.6	-2.9	-3.1	-3.3	-3.5	-3.7	-3.9	-4.1	-4.3	-4.4
33.5	-1.8	-2.0	-2.2	-2.5	-2.7	-2.9	-3.1	-3.3	-3.5	-3.8	-4.0	-4.1	-4.3	-4.5
34.0	-1.8	-2.0	-2.3	-2.5	-2.7	-3.0	-3.2	-3.4	-3.6	-3.8	-4.0	-4.2	-4.4	-4.6
34.5	-1.8	-2.1	-2.3	-2.6	-2.8	-3.0	-3.2	-3.5	-3.7	-3.9	-4.1	-4.3	-4.5	-4.7
35.0	-1.9	-2.1	-2.4	-2.6	-2.8	-3.1	-3.3	-3.5	-3.7	-4.0	-4.2	-4.4	-4.6	-4.7
35.5	-1.9	-2.2	-2.4	-2.7	-2.9	-3.1	-3.4	-3.6	-3.8	-4.0	-4.2	-4.4	-4.6	-4.8
36.0	-2.0	-2.2	-2.5	-2.7	-2.9	-3.2	-3.4	-3.6	-3.9	-4.1	-4.3	-4.5	-4.7	-4.9
36.5	-2.0	-2.3	-2.5	-2.8	-3.0	-3.2	-3.5	-3.7	-3.9	-4.1	-4.4	-4.6	-4.8	-5.0
37.0	-2.0	-2.3	-2.6	-2.8	-3.1	-3.3	-3.5	-3.8	-4.0	-4.2	-4.4	-4.6	-4.9	-5.1
37.5	-2.1	-2.3	-2.6	-2.9	-3.1	-3.3	-3.6	-3.8	-4.1	-4.3	-4.5	-4.7	-4.9	-5.1
38.0	-2.1	-2.4	-2.6	-2.9	-3.2	-3.4	-3.6	-3.9	-4.1	-4.3	-4.6	-4.8	-5.0	-5.2
38.5	-2.2	-2.4	-2.7	-3.0	-3.2	-3.5	-3.7	-3.9	-4.2	-4.4	-4.6	-4.9	-5.1	-5.3
39.0	-2.2	-2.5	-2.7	-3.0	-3.3	-3.5	-3.8	-4.0	-4.2	-4.5	-4.7	-4.9	-5.2	-5.4

TABLE 6. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR SIMULTANEOUS CHANGES IN SALINITY, TEMPERATURE, AND PRESSURE, V_{stp} - Continued

10,000 METERS
(1050,96 kg/cm^2)

‰ \ °C	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0.0	0.5	1.0	1.5	2.0	2.5	3.0
32.0	2.6	2.3	1.9	1.6	1.2	0.9	0.5	0.2	-0.1	-0.5	-0.8	-1.1	-1.4	-1.7
32.5	2.6	2.3	1.9	1.5	1.2	0.8	0.5	0.2	-0.2	-0.5	-0.8	-1.2	-1.5	-1.8
33.0	2.6	2.3	1.9	1.5	1.2	0.8	0.5	0.1	-0.2	-0.5	-0.9	-1.2	-1.5	-1.8
33.5	2.6	2.2	1.9	1.5	1.1	0.8	0.4	0.1	-0.2	-0.6	-0.9	-1.2	-1.6	-1.9
34.0	2.6	2.2	1.9	1.5	1.1	0.8	0.4	0.1	-0.3	-0.6	-1.0	-1.3	-1.6	-1.9
34.5	2.6	2.2	1.8	1.5	1.1	0.7	0.4	0.0	-0.3	-0.7	-1.0	-1.3	-1.6	-2.0
35.0	2.6	2.2	1.8	1.4	1.1	0.7	0.4	0.0	-0.3	-0.7	-1.0	-1.4	-1.7	-2.0
35.5	2.6	2.2	1.8	1.4	1.1	0.7	0.3	-0.0	-0.4	-0.7	-1.1	-1.4	-1.7	-2.1
36.0	2.6	2.2	1.8	1.4	1.0	0.7	0.3	-0.1	-0.4	-0.8	-1.1	-1.5	-1.8	-2.1
36.5	2.5	2.2	1.8	1.4	1.0	0.6	0.3	-0.1	-0.5	-0.8	-1.2	-1.5	-1.8	-2.2
37.0	2.5	2.1	1.8	1.4	1.0	0.6	0.2	-0.1	-0.5	-0.8	-1.2	-1.5	-1.9	-2.2
37.5	2.5	2.1	1.7	1.3	1.0	0.6	0.2	-0.2	-0.5	-0.9	-1.2	-1.6	-1.9	-2.3
38.0	2.5	2.1	1.7	1.3	0.9	0.6	0.2	-0.2	-0.6	-0.9	-1.3	-1.6	-2.0	-2.3
38.5	2.5	2.1	1.7	1.3	0.9	0.5	0.2	-0.2	-0.6	-0.9	-1.3	-1.7	-2.0	-2.4
39.0	2.5	2.1	1.7	1.3	0.9	0.5	0.1	-0.2	-0.6	-1.0	-1.3	-1.7	-2.1	-2.4

‰ \ °C	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
32.0	-2.0	-2.3	-2.6	-2.9	-3.2	-3.5	-3.7	-4.0	-4.3	-4.5	-4.8	-5.0	-5.2	-5.5
32.5	-2.1	-2.4	-2.7	-3.0	-3.2	-3.5	-3.8	-4.1	-4.3	-4.6	-4.8	-5.1	-5.3	-5.6
33.0	-2.1	-2.4	-2.7	-3.0	-3.3	-3.6	-3.9	-4.1	-4.4	-4.7	-4.9	-5.2	-5.4	-5.6
33.5	-2.2	-2.5	-2.8	-3.1	-3.4	-3.7	-3.9	-4.2	-4.5	-4.7	-5.0	-5.2	-5.5	-5.7
34.0	-2.2	-2.5	-2.8	-3.1	-3.4	-3.7	-4.0	-4.3	-4.5	-4.8	-5.1	-5.3	-5.6	-5.8
34.5	-2.3	-2.6	-2.9	-3.2	-3.5	-3.8	-4.1	-4.3	-4.6	-4.9	-5.2	-5.4	-5.7	-5.9
35.0	-2.3	-2.7	-3.0	-3.3	-3.6	-3.9	-4.1	-4.4	-4.7	-5.0	-5.2	-5.5	-5.7	-6.0
35.5	-2.4	-2.7	-3.0	-3.3	-3.6	-3.9	-4.2	-4.5	-4.8	-5.0	-5.3	-5.6	-5.8	-6.1
36.0	-2.4	-2.8	-3.1	-3.4	-3.7	-4.0	-4.3	-4.6	-4.8	-5.1	-5.4	-5.7	-5.9	-6.2
36.5	-2.5	-2.8	-3.1	-3.4	-3.7	-4.0	-4.3	-4.6	-4.9	-5.2	-5.5	-5.7	-6.0	-6.3
37.0	-2.5	-2.9	-3.2	-3.5	-3.8	-4.1	-4.4	-4.7	-5.0	-5.3	-5.5	-5.8	-6.1	-6.3
37.5	-2.6	-2.9	-3.2	-3.6	-3.9	-4.2	-4.5	-4.8	-5.1	-5.3	-5.6	-5.9	-6.2	-6.4
38.0	-2.6	-3.0	-3.3	-3.6	-3.9	-4.2	-4.5	-4.8	-5.1	-5.4	-5.7	-6.0	-6.2	-6.5
38.5	-2.7	-3.0	-3.4	-3.7	-4.0	-4.3	-4.6	-4.9	-5.2	-5.5	-5.8	-6.1	-6.3	-6.6
39.0	-2.7	-3.1	-3.4	-3.7	-4.1	-4.4	-4.7	-5.0	-5.3	-5.6	-5.9	-6.1	-6.4	-6.7

TABLE 6. CORRECTION TO SOUND SPEED, V_o (1449.1 m/sec), FOR SIMULTANEOUS CHANGES IN SALINITY, TEMPERATURE, AND PRESSURE, V_{stp} - Continued

11,000 METERS
(1157.22 kg/cm^2)

‰ \ °C	-3.5	-3.0	-2.5	-2.0	-1.5	-1.0	-0.5	0.0	0.5	1.0	1.5	2.0	2.5	3.0
32.0	3.3	2.8	2.4	1.9	1.5	1.1	0.7	0.3	-0.2	-0.6	-1.0	-1.4	-1.7	-2.1
32.5	3.3	2.8	2.4	1.9	1.5	1.1	0.6	0.2	-0.2	-0.6	-1.0	-1.4	-1.8	-2.2
33.0	3.2	2.8	2.3	1.9	1.4	1.0	0.6	0.2	-0.2	-0.7	-1.1	-1.5	-1.9	-2.2
33.5	3.2	2.8	2.3	1.9	1.4	1.0	0.5	0.1	-0.3	-0.7	-1.1	-1.5	-1.9	-2.3
34.0	3.2	2.7	2.3	1.8	1.4	0.9	0.5	0.1	-0.3	-0.8	-1.2	-1.6	-2.0	-2.4
34.5	3.2	2.7	2.2	1.8	1.3	0.9	0.5	0.0	-0.4	-0.8	-1.2	-1.6	-2.0	-2.4
35.0	3.1	2.7	2.2	1.8	1.3	0.9	0.4	0.0	-0.4	-0.8	-1.3	-1.7	-2.1	-2.5
35.5	3.1	2.6	2.2	1.7	1.3	0.8	0.4	-0.0	-0.5	-0.9	-1.3	-1.7	-2.1	-2.5
36.0	3.1	2.6	2.2	1.7	1.2	0.8	0.4	-0.1	-0.5	-0.9	-1.4	-1.8	-2.2	-2.6
36.5	3.1	2.6	2.1	1.7	1.2	0.8	0.3	-0.1	-0.6	-1.0	-1.4	-1.8	-2.2	-2.7
37.0	3.0	2.6	2.1	1.6	1.2	0.7	0.3	-0.2	-0.6	-1.0	-1.5	-1.9	-2.3	-2.7
37.5	3.0	2.5	2.1	1.6	1.1	0.7	0.2	-0.2	-0.7	-1.1	-1.5	-1.9	-2.4	-2.8
38.0	3.0	2.5	2.0	1.6	1.1	0.7	0.2	-0.3	-0.7	-1.1	-1.6	-2.0	-2.4	-2.8
38.5	3.0	2.5	2.0	1.5	1.1	0.6	0.2	-0.3	-0.7	-1.2	-1.6	-2.0	-2.5	-2.9
39.0	3.0	2.5	2.0	1.5	1.0	0.6	0.1	-0.3	-0.8	-1.2	-1.7	-2.1	-2.5	-2.9

‰ \ °C	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
32.0	-2.5	-2.9	-3.2	-3.6	-3.9	-4.3	-4.6	-5.0	-5.3	-5.6	-5.9	-6.2	-6.5	-6.8
32.5	-2.6	-2.9	-3.3	-3.7	-4.0	-4.4	-4.7	-5.0	-5.4	-5.7	-6.0	-6.3	-6.6	-6.9
33.0	-2.6	-3.0	-3.4	-3.7	-4.1	-4.4	-4.8	-5.1	-5.5	-5.8	-6.1	-6.4	-6.7	-7.0
33.5	-2.7	-3.1	-3.4	-3.8	-4.2	-4.5	-4.9	-5.2	-5.5	-5.9	-6.2	-6.5	-6.8	-7.1
34.0	-2.7	-3.1	-3.5	-3.9	-4.2	-4.6	-4.9	-5.3	-5.6	-6.0	-6.3	-6.6	-6.9	-7.2
34.5	-2.8	-3.2	-3.6	-3.9	-4.3	-4.7	-5.0	-5.4	-5.7	-6.0	-6.4	-6.7	-7.0	-7.3
35.0	-2.9	-3.3	-3.6	-4.0	-4.4	-4.7	-5.1	-5.4	-5.8	-6.1	-6.5	-6.8	-7.1	-7.4
35.5	-2.9	-3.3	-3.7	-4.1	-4.4	-4.8	-5.2	-5.5	-5.9	-6.2	-6.5	-6.9	-7.2	-7.5
36.0	-3.0	-3.4	-3.8	-4.1	-4.5	-4.9	-5.3	-5.6	-6.0	-6.3	-6.6	-7.0	-7.3	-7.6
36.5	-3.1	-3.4	-3.8	-4.2	-4.6	-5.0	-5.3	-5.7	-6.0	-6.4	-6.7	-7.1	-7.4	-7.7
37.0	-3.1	-3.5	-3.9	-4.3	-4.7	-5.0	-5.4	-5.8	-6.1	-6.5	-6.8	-7.2	-7.5	-7.8
37.5	-3.2	-3.6	-4.0	-4.4	-4.7	-5.1	-5.5	-5.9	-6.2	-6.6	-6.9	-7.2	-7.6	-7.9
38.0	-3.2	-3.6	-4.0	-4.4	-4.8	-5.2	-5.6	-5.9	-6.3	-6.6	-7.0	-7.3	-7.7	-8.0
38.5	-3.3	-3.7	-4.1	-4.5	-4.9	-5.3	-5.6	-6.0	-6.4	-6.7	-7.1	-7.4	-7.8	-8.1
39.0	-3.4	-3.8	-4.2	-4.6	-5.0	-5.3	-5.7	-6.1	-6.5	-6.8	-7.2	-7.5	-7.9	-8.2

TABLE 7. SOUND SPEED CONVERSION - METERS/SECOND TO FEET/SECOND.

m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft
1400	4593.2	1450	4757.2	1500	4921.2	1550	5085.3	1600	5249.3	1650	5413.4	1700	5577.4	1750	5741.5
1401	4596.4	1451	4760.5	1501	4924.5	1551	5088.6	1601	5252.6	1651	5416.7	1701	5580.7	1751	5744.7
1402	4599.7	1452	4763.8	1502	4927.8	1552	5091.9	1602	5255.9	1652	5419.9	1702	5584.0	1752	5748.0
1403	4603.0	1453	4767.1	1503	4931.1	1553	5095.1	1603	5259.2	1653	5423.2	1703	5587.3	1753	5751.3
1404	4606.3	1454	4770.3	1504	4934.4	1554	5098.4	1604	5262.5	1654	5426.5	1704	5590.5	1754	5754.6
1405	4609.6	1455	4773.6	1505	4937.7	1555	5101.7	1605	5265.7	1655	5429.8	1705	5593.8	1755	5757.9
1406	4612.9	1456	4776.9	1506	4940.9	1556	5105.0	1606	5269.0	1656	5433.1	1706	5597.1	1756	5761.1
1407	4616.1	1457	4780.2	1507	4944.2	1557	5108.3	1607	5272.3	1657	5436.3	1707	5600.4	1757	5764.4
1408	4619.4	1458	4783.5	1508	4947.5	1558	5111.5	1608	5275.6	1658	5439.6	1708	5603.7	1758	5767.7
1409	4622.7	1459	4786.7	1509	4950.8	1559	5114.8	1609	5278.9	1659	5442.9	1709	5606.9	1759	5771.0
1410	4626.0	1460	4790.0	1510	4954.1	1560	5118.1	1610	5282.1	1660	5446.2	1710	5610.2	1760	5774.3
1411	4629.3	1461	4793.3	1511	4957.3	1561	5121.4	1611	5285.4	1661	5449.5	1711	5613.5	1761	5777.5
1412	4632.5	1462	4796.6	1512	4960.6	1562	5124.7	1612	5288.7	1662	5452.7	1712	5616.8	1762	5780.8
1413	4635.8	1463	4799.9	1513	4963.9	1563	5127.9	1613	5292.0	1663	5456.0	1713	5620.1	1763	5784.1
1414	4639.1	1464	4803.1	1514	4967.2	1564	5131.2	1614	5295.3	1664	5459.3	1714	5623.3	1764	5787.4
1415	4642.4	1465	4806.4	1515	4970.5	1565	5134.5	1615	5298.5	1665	5462.6	1715	5626.6	1765	5790.7
1416	4645.7	1466	4809.7	1516	4973.7	1566	5137.8	1616	5301.8	1666	5465.9	1716	5629.9	1766	5794.0
1417	4648.9	1467	4813.0	1517	4977.0	1567	5141.1	1617	5305.1	1667	5469.1	1717	5633.2	1767	5797.2
1418	4652.2	1468	4816.3	1518	4980.3	1568	5144.3	1618	5308.4	1668	5472.4	1718	5636.5	1768	5800.5
1419	4655.5	1469	4819.5	1519	4983.6	1569	5147.6	1619	5311.7	1669	5475.7	1719	5639.8	1769	5803.8
1420	4658.8	1470	4822.8	1520	4986.9	1570	5150.9	1620	5314.9	1670	5479.0	1720	5643.0	1770	5807.1
1421	4662.1	1471	4826.1	1521	4990.1	1571	5154.2	1621	5318.2	1671	5482.3	1721	5646.3	1771	5810.4
1422	4665.3	1472	4829.4	1522	4993.4	1572	5157.5	1622	5321.5	1672	5485.6	1722	5649.6	1772	5813.6
1423	4668.6	1473	4832.7	1523	4996.7	1573	5160.8	1623	5324.8	1673	5488.8	1723	5652.9	1773	5816.9
1424	4671.9	1474	4835.9	1524	5000.0	1574	5164.0	1624	5328.1	1674	5492.1	1724	5656.2	1774	5820.2
1425	4675.2	1475	4839.2	1525	5003.3	1575	5167.3	1625	5331.4	1675	5495.4	1725	5659.4	1775	5823.5
1426	4678.5	1476	4842.5	1526	5006.6	1576	5170.6	1626	5334.6	1676	5498.7	1726	5662.7	1776	5826.8
1427	4681.7	1477	4845.8	1527	5009.8	1577	5173.9	1627	5337.9	1677	5502.0	1727	5666.0	1777	5830.0
1428	4685.0	1478	4849.1	1528	5013.1	1578	5177.2	1628	5341.2	1678	5505.2	1728	5669.3	1778	5833.3
1429	4688.3	1479	4852.4	1529	5016.4	1579	5180.4	1629	5344.5	1679	5508.5	1729	5672.6	1779	5836.6
1430	4691.6	1480	4855.6	1530	5019.7	1580	5183.7	1630	5347.8	1680	5511.8	1730	5675.8	1780	5839.9
1431	4694.9	1481	4858.9	1531	5023.0	1581	5187.0	1631	5351.0	1681	5515.1	1731	5679.1	1781	5843.2
1432	4698.2	1482	4862.2	1532	5026.2	1582	5190.3	1632	5354.3	1682	5518.4	1732	5682.4	1782	5846.4
1433	4701.4	1483	4865.5	1533	5029.5	1583	5193.6	1633	5357.6	1683	5521.6	1733	5685.7	1783	5849.7
1434	4704.7	1484	4868.8	1534	5032.8	1584	5196.8	1634	5360.9	1684	5524.9	1734	5689.0	1784	5853.0
1435	4708.0	1485	4872.0	1535	5036.1	1585	5200.1	1635	5364.2	1685	5528.2	1735	5692.2	1785	5856.3
1436	4711.3	1486	4875.3	1536	5039.4	1586	5203.4	1636	5367.4	1686	5531.5	1736	5695.5	1786	5859.6
1437	4714.6	1487	4878.6	1537	5042.6	1587	5206.7	1637	5370.7	1687	5534.8	1737	5698.8	1787	5862.8
1438	4717.8	1488	4881.9	1538	5045.9	1588	5210.0	1638	5374.0	1688	5538.0	1738	5702.1	1788	5866.1
1439	4721.1	1489	4885.2	1539	5049.2	1589	5213.2	1639	5377.3	1689	5541.3	1739	5705.4	1789	5869.4
1440	4724.4	1490	4888.4	1540	5052.5	1590	5216.5	1640	5380.6	1690	5544.6	1740	5708.6	1790	5872.7
1441	4727.7	1491	4891.7	1541	5055.8	1591	5219.8	1641	5383.8	1691	5547.9	1741	5711.9	1791	5876.0
1442	4731.0	1492	4895.0	1542	5059.0	1592	5223.1	1642	5387.1	1692	5551.2	1742	5715.2	1792	5879.3
1443	4734.2	1493	4898.3	1543	5062.3	1593	5226.4	1643	5390.4	1693	5554.5	1743	5718.5	1793	5882.5
1444	4737.5	1494	4901.6	1544	5065.6	1594	5229.6	1644	5393.7	1694	5557.7	1744	5721.8	1794	5885.8
1445	4740.8	1495	4904.8	1545	5068.9	1595	5232.9	1645	5397.0	1695	5561.0	1745	5725.1	1795	5889.1
1446	4744.1	1496	4908.1	1546	5072.2	1596	5236.2	1646	5400.3	1696	5564.3	1746	5728.3	1796	5892.4
1447	4747.4	1497	4911.4	1547	5075.4	1597	5239.5	1647	5403.5	1697	5567.6	1747	5731.6	1797	5895.7
1448	4750.6	1498	4914.7	1548	5078.7	1598	5242.8	1648	5406.8	1698	5570.9	1748	5734.9	1798	5898.9
1449	4753.9	1499	4918.0	1549	5082.0	1599	5246.1	1649	5410.1	1699	5574.1	1749	5738.2	1799	5902.2

U. S. Naval Oceanographic Office
TABLES OF SOUND SPEED IN SEA WATER, Oceanographic Analysis Division, August 1962. 47 p. 1 fig. 7 tables. (SP-58).

References

Tables are based on Wayne D. Wilson's equation for speed of sound in sea water. Tables cover temperature, salinity and pressure ranges from -2.5°to 34.9°C, to 0 to 41.9‰, and 1.03 to 1260 kg/cm^2. A pressure-depth relationship is established whereby tables may be used with either depth or pressure. A sound speed nomogram is presented. Published as a supplement to H. O. Pub. 614 (Reprinted 1957).

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2. Underwater Acoustics
3. Sea—water - sound - speed
i. title: Tables of Sound Speed in Sea Water.
ii. SP-58